

EXHIBIT A-3

2015 LNPA Technical Requirements Document

1. TRD OVERVIEW, INTRODUCTION, and FRS Section 1

1.1 STATEMENT:

TRD Introduction and Purpose

Pursuant to the Telecommunications Act of 1996, the Federal Communications Commission (FCC) has adopted a succession of orders implementing Local Number Portability (LNP), which allows consumers to change service providers for telecommunications services at the same location without changing their telephone numbers. Currently, LNP is enabled in the seven United States former Regional Bell Operating Company (RBOC) service areas or regions, including their related Territories (each a "Region" and collectively, the "Regions") through seven databases, one in each Region, collectively referred to as the Number Portability Administration Center/Service Management System (NPAC/SMS). Each Regional database is operated and administered by a Local Number Portability Administrator (LNPA), neutral and independent from Telecommunications Carriers. A separate Master Agreement governs the operation and administration of the NPAC/SMS by the LNPA in each of the seven Regions and specifies the terms and conditions for providing NPAC/SMS services (referred to as the "Services").

All Master Agreements in all Regions are managed by the North American Portability Management LLC (NAPM LLC), and all Master Agreements in all Regions expire on June 30, 2015. The FCC has delegated authority to its advisory committee, the North American Numbering Council (NANC), working in consultation with the NAPM LLC, to implement a vendor selection process, for the next-generation NPAC/SMS in all Regions, to commence at the expiration of the current Master Agreements. This vendor selection process includes issuance of a Request For Information (RFI) and a subsequent Request For Proposal (RFP) and will culminate in the selection of the LNPA in each of the seven Regions. The purpose of the NANC is to advise the Commission and to make recommendations, reached through consensus, that foster efficient and impartial number administration. The NANC, a diverse body with consumer, state government, and industry representatives, has established an LNPA Selection Working Group (SWG) to oversee the selection process of the LNPA. See Order, WC Docket No. 09-109 and CC Docket No. 95-116, DA 11-883, (adopted May 16, 2011) for process information and the respective roles of the FCC, NANC, and NAPM LLC. During this process, options for replacement and/or enhancement of the current NPAC/SMS in all Regions may be considered.

The purpose of the RFP is to provide each prospective RFP vendor (referred to as a Respondent or a Bidder) with an opportunity to demonstrate how its proposal satisfies the requirements of the RFP and will benefit Telecommunications Carriers and other qualified parties who will be Users of the NPAC/SMS and who rely upon the NPAC/SMS for the rating, routing, and billing of calls, law enforcement and other parties who may be granted certain limited and special access to NPAC/SMS data for other permissible purposes, and ultimately consumers. Each Respondent is instructed to answer all questions in as concise and complete a manner as possible, and in many instances, the Respondent is provided with an opportunity to elaborate on its answers.

The RFP includes this Technical Requirements Document (TRD) survey that identifies both the technical requirements describing the requisite technical capability of any proposal and the required obligations of an LNPA to administer the NPAC/SMS(s). Although great care has been taken to ensure the accuracy of the TRD and other reference documents, it is the Respondent's responsibility to ensure that any response to a specific NPAC/SMS technical requirement contained herein is based on the latest NPAC/SMS Functional Requirements Specification (FRS) and other reference documents as currently published and made available to the industry. FRS Rel 3.4.1 (a) was used in creating the TRD FRS sections. Each technical document (FRS, IIS, GDMO, ASN 1.0) has its own glossary, abbreviations, figures and tables.

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The Local Number Portability Administration Working Group (LNPA WG) is a public industry forum that determines what technical capabilities are to be implemented in the NPAC/SMS. Information about this subcommittee of the NANC is found at <http://www.npac.com>. All respondents to the TRD survey are encouraged to attend the LNPA WG, during and after their submission(s).

The NAPM LLC has authorized one of its Advisory Committees, the Future of NPAC Subcommittee (hereafter referred to as the FoNPAC), to project manage the RFP process, including the solicitation and evaluation of responses to this TRD survey and to utilize the Iasta® SmartSource SRM® Tool to gather, evaluate, and weigh all responses to this TRD survey as part of the LNPA selection process. The LNPA selection process is expected to conclude on or about September 2013.

Thank you in advance for your participation in the RFP process.

1.2 STATEMENT:

Vendor TRD Response Instructions

As part of responding to this TRD survey, Respondents will be **required** to respond to each requirement as indicated, as well as answer a series of questions in more detail. The detailed question section is at the end of this TRD survey called, "TRD Detailed Response."

- If the Respondent would like to explain any answers, please do so in the "TRD Detailed Response" section.
- If the Respondent would like to suggest improvements or additional enhancements, please do so in the "TRD Detailed Response" section.

RFP survey Section 9 on Service Level Requirements supersedes any and all corresponding Service Level Requirements documented in this TRD survey or in the FRS.

1.3* QUESTION:

Backwards Compatibility Requirement

In responding to the requirements in this TRD, all Respondents submitting bids **MUST** indicate and highlight any and all areas of functionality in their proposal that **will not** meet the Backwards Compatibility Requirements.

Backward Compatibility Definitions

There are three areas of Backwards Compatibility. These are defined below:

- Pure Backwards Compatibility - means that interface specification has NOT been modified and therefore, no recompile is necessary. Also, no behavior on the NPAC/SMS has been modified to provide any change to the previously existing functionality accessible over the interface.
- Interface and Functional Backwards Compatibility - means that the interface may have been modified, however the changes are such that no action is required for the Service Provider to remain backward compatible. However, any new functionality is optionally implemented, and would require a recompile and

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possibly functional software changes by the Service Provider to access the newly defined features over the interface. Also, no changes may be made to any existing interface functionality that will require modifications to SOA and/or LSMS platforms.

- Re-Compile Only Backwards Compatibility - means that the interface has been modified, however the changes are such that only a recompile is necessary to remain backward compatible. Any new functionality is optionally implemented by accessing the newly defined features over the interface. Also, no NPAC/SMS software changes may be made to any existing interface functionality that will require source code modifications to SOA and/or LSMS platforms.

The objective is that all implementations resulting from this bidding process remain Interface and Functional Backwards Compatible, to the extent possible.

Has the Respondent agreed to this requirement to indicate any and all areas of their responses that **WILL NOT meet the "Backwards Compatibility Requirements"? Please answer "YES" or "NO".**

(Note: The FoNPAC will assume that all responses include backwards compatibility unless indicated otherwise.)

- ☒ (no answer)
- ☐ Yes
- ☐ No

1.4* QUESTION:

Treatment of Subsequent NANC Change Orders

By submitting a bid to this RFP, Respondent understands and agrees that any NANC Change Orders implemented in the NPAC/SMS subsequent to the submission of their bid, or scheduled for implementation prior to the turn-up of the next-generation NPAC/SMS, **MUST** be incorporated into their proposed NPAC/SMS platform and ready for implementation at turn-up.

- ☒ (no answer)
- ☐ Agree
- ☐ Disagree

1.5* QUESTION:

TRD FRS Section 1: Introduction

The FRS defines the functional requirements of the NPAC/SMS enabling LNP.

This introduction gives an overview of NPAC/SMS functionality. It is intended to prepare the Respondent for the detailed TRD FRS sections that follow. Consult the applicable detailed sections in the FRS or the NPAC/SMS Interoperable

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Interface Specification (IIS), Guidelines for the Definition of Managed Objects (GDMO), and Abstract Syntax Notation One (ASN.1) for more detailed information. www.napmlc.org/pages/NPACRFP/NPACRFP_refdocs.aspx

Has the Respondent read, understood, and incorporated the FRS Section 1 concepts into Respondent's proposal?

- ☒ (no answer)
- ☐ Yes
- ☐ No

2. TRD FRS Section 2: BUSINESS PROCESS FLOWS

2.1* QUESTION:

TRD FRS Section 2: Business Process Flows

The process flows in Section 2 of the FRS indicate how the NPAC/SMS is used by the Service Providers in business processes associated with LNP. Specific requirements generated by the process flows are included in the appropriate FRS sections.

The process flows supported by the NPAC/SMS are:

1. Service Provisioning
2. Service Disconnection
3. Service Repair
4. Conflict and Conflict Resolution
5. Disaster Recovery and Backup
6. Service Order Cancellation
7. Audit Requests
8. Report Requests
9. Data Administration Requests

Please note the following are the specific requirements listed in Section 2 of the FRS and are currently outside the scope of the NPAC/SMS:

1. Interactions between Service Providers (CN2-1.1.1)
2. Service Provider network change activities (CN2-1.3.1)
3. Service Provider's network change validation activities (CN2-1.5.1)
4. Service Provider's repair activities (CN2-3.3.1)
5. Service Provider's conflict resolution activities (CN2.4.2.1)

Has the Respondent read, understood, and incorporated these concepts into Respondent's proposal?

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- ☒ (no answer)
- ☐ Yes
- ☐ No

3. TRD FRS Section 3: NPAC DATA ADMINISTRATION

3.1* QUESTION:

TRD FRS Section 3: NPAC Data Administration

The NPAC/SMS manages the ported TN information associated with Service Provider portability for the LNP service. This section describes the high level requirements associated with managing ported telephone numbers from an operations perspective.

TRD FRS Section 3: Sub Section 3.1:

The required Data Models are described in detail in the FRS document Section 3.1:

- 3.1.1: Data Type Legend
- 3.1.2: NPAC Customer Data Model
- 3.1.3: Subscription Version Data Model
- 3.1.4: Network Data Model

Does the Respondent's proposal adhere to these exact Data Models and has Respondent read, understood, and incorporated these concepts into Respondent's proposal?

- ☒ (no answer)
- ☐ Yes
- ☐ No

3.2* QUESTION:

TRD FRS Section 3: Sub Section 3.2: NPAC Personnel Functionality

The FRS Section 3.2 requirements describe the functionality required by the NPAC/SMS to support the daily operation of the Regional LNP SMS support staff. These requirements define the high level functionality required by the system with the specifics of each requirement defined in more detail in FRS Sections 4 and 5.

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Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?

R3-3: Create NPA-NXX data for a Service Provider
 R3-6.2: Mass Update Filter Usage
 R3-7.2: Administer Mass update on one or more selected Subscription Versions
 R3-7.3: Mass Update Selection Criteria
 R3-7.4: Mass Update Service Provider Id
 R3-7.7: Mass Update Error Processing
 R3-7.8: Mass Update Exception Report
 RR3-254: Validation of LATA ID Errors on Mass Updates
 R3-7.9: Mass Update Required Entry of Service Provider ID
 R3-13: NPAC/SMS mass change update capability to the Local SMS
 RR3-254: Validation of LATA ID Errors on Mass Updates
 RR3-550: Mass Update Pending and Active Subscription Versions – DPC-SSN Field-level Data Validation
 RR3-551: Mass Update Pending and Active Subscription Versions – Validation of DPC-SSNs for Mass Update
 RR3-552: Mass Update Pending and Active Number Pool Blocks – DPC-SSN Field-level Data Validation
 RR3-552.5: Mass Update Pending and Active Number Pool Blocks – Validation of DPC-SSNs for Mass Update
 RR3-708: Mass Update - Notifications for Pseudo-LRN Updates

- ☒ (no answer)
☐ Yes
☐ No

3.2.1* QUESTION:

TRD FRS Section 3: Sub Section 3.2.1: Block Holder, Mass Update

The FRS Section 3.2.1 requirements describe the functionality required by the NPAC/SMS to support Block Holder Mass Updates.

Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?

RR3-210: Block Holder Information Mass Update – Update Fields
 RR3-211: Block Holder Information Mass Update – Block Intersection Rejection
 RR3-212: Block Holder Information Mass Update – Block Status Validation
 RR3-213: Block Holder Information Mass Update – Download to EDR Local SMS
 RR3-214: Block Holder Information Mass Update – Download to non-EDR Local SMS
 RR3-215: Block Holder Information Mass Update – Download of SVs of Type POOL to non-EDR Local SMS

- ☒ (no answer)
☐ Yes
☐ No

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3.2.2 STATEMENT:

TRD FRS Section 3: Sub Section 3.2.2: Service Provider ID (SPID) Migration Update

This FRS section defines how the NPAC/SMS supports modification of Service Provider ID on Local Number Portability information. Two options are available, 1) an on-line self-service feature is available using the LTI that can be used by Service Provider Personnel optionally in lieu of spreadsheets submitted via e-mail to NPAC Personnel, and 2) an interface message enhancement allows NPA-NXX ownership changes to be sent via a CMIP message. NPAC Personnel generate Selection Input Criteria SPID Migration Update Request Files (SIC-SMURF) to all Service Providers (as a primary means of update by those that do not support the interface message to update their databases, and as a backup means of update for those that do support the interface message). Additionally, SIC-SMURFs are used even by Service Providers that support the interface message when the migration involves NPA-NXX-Xs and/or LRNs. SIC-SMURFs are placed in all Service Providers' Secure FTP sites at the beginning of a maintenance window; updates are performed independently off-line during the maintenance window by each Service Provider to its own databases.

3.2.2.1* QUESTION:

TRD FRS Section 3: Sub Section 3.2.2.1: SPID Migration Updates and Processing

With functionality in NANC 323, SIC-SMURFs are generated by NPAC Personnel and distributed (via Secure FTP) to all Service Providers. SPID Migrations may be performed as defined in sections 3.2.2.2 and 3.2.2.3.

Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?

- RR3-255: SPID Migration Update - OpGUI Entry
- RR3-256: SPID Migration Update - Generation of SIC-SMURF Files
- RR3-257: SPID Migration Update - NPAC/SMS Processing of Requested Data
- RR3-258: SPID Migration Update - Suppression of Notifications
- RR3-259: SPID Migration Update - NPAC/SMS Processing of Requested Data Based on Status
- RR3-260: SPID Migration Update - SIC-SMURF File Names
- RR3-261: SPID Migration Update - SIC-SMURF File Formats
- RR3-262: SPID Migration Update - SIC-SMURF NPA-NXX File Processing - Update NPA-NXX Network Data
- RR3-709: SPID Migration Update - SIC-SMURF NPA-NXX File Processing - Update SV Data for Pseudo-LRN Records
- RR3-710: SPID Migration Update - SIC-SMURF NPA-NXX File Processing - Update Block Data for Pseudo-LRN Records
- RR3-264: SPID Migration Update - SIC-SMURF LRN File Processing - Update LRN Data
- RR3-265: SPID Migration Update - SIC-SMURF LRN File Processing - Update Block Data
- RR3-266: SPID Migration Update - SIC-SMURF-LRN File Processing - Update SV Data
- RR3-267: SPID Migration Update - SIC-SMURF NPA-NXX-X File Processing - Update NPA-NXX-X
- RR3-268: SPID Migration Update - Maximum Level of Granularity
- RR3-269: SPID Migration Update - Minimum Level of Granularity
- RR3-274: SPID Migration Update - Exclusion of Data During Recovery
- RR3-275: SPID Migration Update - Rejection for 'pending-like' Number Pool Blocks or Subscription Versions
- RR3-276: Update SPID on Messages Queued for Recovery
- RR3-277: SPID Migration Update - Consistency Check Across Network Data and LRN

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- ☒ (no answer)
- ☐ Yes
- ☐ No

3.2.2.2* QUESTION:

TRD FRS Section 3: Sub Section 3.2.2.2 Requirements

The FRS Section 3.2.2.2 requirements address how online GUI functionality allows a Service Provider to perform self-service on entry of SPID Migrations.

Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?

- RR3-553: Regional SPID Migration Online Functionality Indicator - Tunable Parameter
- RR3-554: Regional SPID Migration Online Functionality Indicator - Tunable Parameter Default
- RR3-555: Regional SPID Migration Online Functionality Indicator - Tunable Parameter Modification
- RR3-556: SPID Migration Blackout Dates - GUI Entry By NPAC Personnel
- RR3-557: SPID Migration Blackout Dates - Displaying in the GUI
- RR3-558: SPID Migration Last Scheduling Date - Tunable Parameter
- RR3-559: SPID Migration Last Scheduling Date - Tunable Parameter Default
- RR3-560: SPID Migration Last Scheduling Date - Tunable Parameter Modification
- RR3-561: SPID Migration Entry Restriction - Last Scheduling Date - Service Provider Personnel
- RR3-562: SPID Migration Update - Migration Summary Information
- RR3-563: SPID Migration Update - GUI Availability/Selection function for Service Provider and NPAC Personnel
- RR3-564: SPID Migration Update - Available Migration Window Minimum - Tunable Parameter
- RR3-565: SPID Migration Update - Available Migration Window Minimum - Reject
- RR3-566: SPID Migration Update - NPAC Personnel Scheduling SPID Migrations to Any Migration Date in the Future
- RR3-567: SPID Migration Update - Available Migration Window Minimum - Tunable Parameter Default
- RR3-568: SPID Migration Update - Available Migration Window Minimum - Tunable Parameter Modification
- RR3-569: SPID Migration Update - GUI Entry by Service Provider and NPAC Personnel
- RR3-570: SPID Migration Update - GUI Entry by Service Provider and NPAC Personnel - Required Fields
- RR3-571: SPID Migration Update - Generation of SPID Migration Name
- RR3-572: SPID Migration Update - GUI Modification by Service Provider Prior to Other Service Provider Concurrence or NPAC Personnel Confirmation
- RR3-573: SPID Migration Update - GUI Cancellation by Service Provider Prior to NPAC Personnel Confirmation
- RR3-574: SPID Migration Update - GUI Error for Double Booking
- RR3-575: SPID Migration Update - GUI Concurrence by Service Provider and NPAC Personnel
- RR3-576: SPID Migration Creation by "migrating-from" and "migrating-to" SPIDs
- RR3-577: SPID Migration Update - GUI Entry Service Provider - Confirmation by NPAC Personnel
- RR3-578: SPID Migration Update - Confirmation by NPAC Personnel Required
- RR3-579: SPID Migration Update - Reject by NPAC Personnel
- RR3-580: SPID Migration Update - Service Providers Viewing Migrations
- RR3-581: SPID Migration Update - Service Providers Viewing Their Own Migrations
- RR3-583: SPID Migration Creation - Disallowing Scheduling of Two SPID Migrations with the same "Migrating-From" and "Migrating-To" SPID to the same Maintenance Day
- RR3-584: SPID Migration Email List - Tunable Parameter
- RR3-585: SPID Migration Email List - Tunable Parameter Default
- RR3-586: SPID Migration Email List - Tunable Parameter Modification

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RR3-587: SPID Migration E-mail due to NPAC Personnel Operations
 RR3-588: SPID Migration E-mail to "migrating-from" and "migrating-to" Service Providers
 RR3-589: SPID Migration Update - GUI Cancellation by NPAC Personnel on behalf of Service Provider
 RR3-590: SPID Migration Update - GUI Modification by NPAC Personnel of Scheduled SPID Migration
 RR3-591: SPID Migration Update - GUI Execution by NPAC Personnel of Scheduled SPID Migration
 RR3-592: SPID Migration Update - GUI Execution by NPAC Personnel - Notification to Local SMS and SOA
 RR3-593: SPID Migration Update - Pending-Like SVs and NPBs Cleaned Up
 RR3-594: Completed SPID Migration Retention - Tunable Parameter
 RR3-595: Completed SPID Migration Retention - Tunable Parameter Default
 RR3-596: Completed SPID Migration Retention - Tunable Parameter Modification
 RR3-597: Completed SPID Migration Retention - Housekeeping Purge
 RR3-598: Cancelled SPID Migration Retention - Tunable Parameter
 RR3-599: Cancelled SPID Migration Retention - Tunable Parameter Default
 RR3-600: Cancelled SPID Migration Retention - Tunable Parameter Modification
 RR3-601: Cancelled SPID Migration Retention - Housekeeping Purge
 RR3-602: SPID Migration Update - Quota Management
 RR3-603: SPID Migration Update - Quota Management - Quota Exceeded Rejection for Service Provider Personnel
 RR3-604: SPID Migration Update - Quota Management - Quota Exceeded Warning for NPAC Personnel
 RR3-605: SPID Migration Update - Quota Management - Quota Exceeded Warning Content
 RR3-606: SPID Migration Update - Migration Quota Tunable Parameter
 RR3-607: SPID Migration Update - Migration Quota Tunable Parameter Default
 RR3-608: SPID Migration Update - Migration Quota Tunable Parameter Modification
 RR3-609: SPID Migration Update - All Regions Migration Quota Tunable Parameter
 RR3-610: SPID Migration Update - All Regions Migration Quota Tunable Parameter Default
 RR3-611: SPID Migration Update - All Regions Migration Quota Tunable Parameter Modification
 RR3-612: SPID Migration Update - SV Quota Tunable Parameter
 RR3-613: SPID Migration Update - SV Quota Tunable Parameter Default
 RR3-614: SPID Migration Update - SV Quota Tunable Parameter Modification
 RR3-615: Maintenance Window Day of the Week - Tunable Parameter
 RR3-616: Maintenance Window Day of the Week - Tunable Parameter Default
 RR3-617: Maintenance Window Day of the Week - Tunable Parameter Modification
 RR3-618: Maintenance Window Start Time Hour - Tunable Parameter
 RR3-619: Maintenance Window Start Time Hour - Tunable Parameter Default
 RR3-620: Maintenance Window Start Time Hour - Tunable Parameter Modification
 RR3-621: Preliminary SPID Migration SMURF Files Lead Time - Tunable Parameter
 RR3-622: Preliminary SPID Migration SMURF Files Lead Time - Tunable Parameter Default
 RR3-623: Preliminary SPID Migration SMURF Files Lead Time - Tunable Parameter Modification
 RR3-624: Generation of Preliminary SMURF files
 RR3-625: Generation of Final SMURF files
 RR3-626: Offline-Only SPID Migration Flag
 RR3-627: SPID Migration Suspended Status
 RR3-628: Suspended SPID Migrations - No Automatic Online Migration
 RR3-629: Suspended SPID Migrations - No Manual Online Migration
 RR3-630: SPID Migration Suspension/Un-suspension - No Quota Change
 RR3-631: Automatic suspension when pre-migration validations fail
 RR3-632: SPID Migration - Secure FTP Site Directory Structure
 RR3-632.5: SPID Migration - Secure FTP Site Subdirectory - Service Provider Tunable
 RR3-633: SPID Migration - Secure FTP Site Date Subdirectory - Service Provider Indicator Default
 RR3-634: SPID Migration - Secure FTP Site Date Subdirectory - Service Provider Indicator Modification
 RR3-711: SPID Migration -Service Provider GUI Login Restriction
 RR3-712: SPID Migration - Pseudo-LRN Indicator
 RR3-762: SPID Migration Update - Online-to-Offline Restriction Window - Tunable Parameter
 RR3-763: SPID Migration Update - Online-to-Offline Restriction Window - Tunable Parameter Default
 RR3-764: SPID Migration Update - Online-to-Offline Restriction Window - Tunable Parameter Modification

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RR3-765: SPID Migration Update - SPID Migration Date Restriction Window - Tunable Parameter
 RR3-766: SPID Migration Update - SPID Migration Date Restriction Window - Tunable Parameter Default
 RR3-767: SPID Migration Update - SPID Migration Date Restriction Window - Tunable Parameter Modification

- ☒ (no answer)
☐ Yes
☐ No

3.2.2.3* QUESTION:

TRD FRS Section 3: Sub Section 3.2.2.3: SPID Migration Interface Messages

The FRS Section 3.2.2.3 requirements address interface messages for code-only migrations that are sent to Service Providers that support the feature.

Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?

RR3-635: Service Provider SOA Automated SPID Migration Indicator
 RR3-636: Service Provider SOA Automated SPID Migration Indicator Default
 RR3-637: Service Provider SOA Automated SPID Migration Indicator Modification
 RR3-638: Service Provider SOA Automated SPID Migration Indicator Usage
 RR3-639: Service Provider LSMS Automated SPID Migration Indicator
 RR3-640: Service Provider LSMS Automated SPID Migration Indicator Default
 RR3-641: Service Provider LSMS Automated SPID Migration Indicator Modification
 RR3-642: Service Provider LSMS Automated SPID Migration Indicator Usage
 RR3-643: Service Provider Secure FTP SMURF File in lieu of missed SPID Migration Transactions
 RR3-644: Online SPID Migration Lead Time - Tunable Parameter
 RR3-645: Online SPID Migration Lead Time - Tunable Parameter Default
 RR3-646: Online SPID Migration Lead Time - Tunable Parameter Modification
 RR3-647: Online SPID Migration - Database Updates

- ☒ (no answer)
☐ Yes
☐ No

3.2.2.4* QUESTION:

TRD FRS Section 3: Sub Section 3.2.2.4: SPID Migration Reports

Does the Respondent's proposal fully comply with the requirement below in time to meet the published implementation date?

RR3-648: SPID Migration Reports – Post-Migration SV and NPB Count Report

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- ☒ (no answer)
- ☐ Yes
- ☐ No

3.3* QUESTION:

TRD FRS Section 3: Sub Section 3.3: System Functionality

The FRS Section 3.3 requirements address system functionality related to offline batch downloads, online network downloads, notifications, LATA ID association and validation, and NPAC SMS record ID inventory.

Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?

- R3-8: Off-line batch updates for Local SMS Disaster Recovery
- R3-9: NPAC/SMS download of network data to the Local SMS and SOA
- RR3-66: Number Pool NPA-NXX-X Holder Information - NPAC/SMS download of network data to the SOA or Local SMS
- RR3-67.1: Number Pool NPA-NXX-X Holder Information - NPAC/SMS download via SOA and/or Local SMS Interface of NPA-NXX-X allocation to the Service Providers
- R3-10: NPAC/SMS notification of NPA-NXX availability to the Service Providers
- R3-11: NPAC/SMS notification of LRNs and Service Provider data by Service Provider
- RR3-67.2: Number Pool NPA-NXX-X Holder Information - NPAC/SMS download via Web Bulletin Board of NPA-NXX-X allocation to the Service Providers
- RR3-278: LATA ID Information Source
- RR3-279: Association of LATA ID with NPA-NXXs
- RR3-280: Association of LATA ID with LRNs
- RR3-439: Validation of LATA ID for NPA-NXX Creates
- RR3-440: Validation of LATA ID for LRN Creates
- RR3-649: NPAC/SMS Record ID Inventory - Maximum Value Rollover
- RR3-650: NPAC/SMS Record ID Inventory - Mechanism
- RR3-651: NPAC/SMS Record ID Inventory - Adding Available ID Values
- RR3-652: NPAC/SMS Record ID Inventory - Skipping Un-Available ID Values
- RR3-653: NPAC/SMS Record ID Inventory - Issuing new ID Values
- RR3-654: NPAC/SMS Record ID Inventory - Skipping ID Value of Zero

- ☒ (no answer)
- ☐ Yes
- ☐ No

3.4* QUESTION:

TRD FRS Section 3: Sub Section 3.4: Additional Requirements

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The FRS Section 3.4 requirements address additional requirements related to addition, validation, deletion and downloading of NPA NXX data and LRNs. FTP site info, clock synchronization, database extract file creation, input restrictions, first usage effective dates, and timestamps are also covered in section 3.4.

Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?

RX3-1.1.1: Service Provider NPA-NXX Data Addition
 RX3-1.1.2: Service Provider NPA-NXX Data Effective Date Validation
 RX3-1.2: Service Provider LRN Data Addition
 RX3-3.1: Service Provider NPA-NXX Data Deletion
 RX3-3.2: Service Provider LRN Data Deletion
 RR3-1: Service Provider Download Indicator
 RR3-2: Service Provider Download Indicator
 R3-14: Bulk Database Extracts
 R3-15: Secure FTP Site for Database Extracts
 R3-16: Database Extract File Creation
 R3-17: Scope of Database Extract File Creation
 RR3-3: NPAC/SMS Input Restrictions
 RR3-4: Create LRN data for a Service Provider
 RR3-15: NPAC Clock Synchronization
 RR3-474: NPA-NXX Availability - First Usage Effective Date Window - Tunable Parameter
 RR3-475: NPA-NXX Availability - First Usage Effective Date Window - Tunable Parameter Default
 RR3-476: NPA-NXX Availability - First Usage Effective Date Window - Tunable Parameter Modification
 RR3-477: NPA-NXX- Live TimeStamp
 RR3-478: Region Supports First Usage Effective Date Indicator
 RR3-479: Region Supports First Usage Effective Date Modification
 RR3-480: Region Supports First Usage Effective Date Indicator - Default Value

- ☒ (no answer)
☐ Yes
☐ No

3.4.1* QUESTION:

TRD FRS Section 3: Sub Section 3.4.1: Valid NPA-NXXs in a Region Data Validations

The FRS Section 3.4.1 requirements address data validations for NPAs and NPA NXXs for each NPAC region.

Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?

RR3-441: Valid NPAs for each NPAC Region
 RR3-442: Maintaining List of Valid NPAs for Each NPAC Region
 RR3-443: Updating List of Valid NPAs for Each NPAC Region
 RR3-444: Rejection of NPA-NXXs that Do Not Belong to a Valid NPA for the NPAC Region
 RR3-445: Regional NPAC NPA Edit Flag Indicator
 RR3-446: Regional NPAC NPA Edit Flag Indicator Modification

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RR3-447: Regional NPAC NPA Edit Flag Indicator - Default Value
 RR3-448: Valid NPA-NXXs for 859 KY Exception
 RR3-449: Maintaining List of Valid NPA-NXXs for 859 KY Exception
 RR3-450: Updating List of Valid NPAs for 859 KY Exception
 RR3-451: Rejection of NPA-NXXs that Do Not Belong to a Valid NPA for the 859 KY Exception

- ☒ (no answer)
☐ Yes
☐ No

3.4.2* **QUESTION:**

TRD FRS Section 3: Sub Section 3.4.2: NPA-NXX Modification

The following requirements address modification of NPA NXX data.

Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?

RR3-655: Regional NPA-NXX Modification Flag Indicator - Tunable Parameter
 RR3-656: Regional NPA-NXX Modification Flag Indicator - Tunable Parameter Default
 RR3-657: Regional NPA-NXX Modification Flag Indicator - Tunable Parameter Modification
 RR3-658: Modify NPA-NXX data for a Service Provider
 RR3-659: NPAC/SMS download of network data to the Local SMS and SOA - Modification
 RR3-660: Service Provider NPA-NXX Data Modification
 RR3-661: Modification of NPA-NXX - Effective Date Modification from OpGUI
 RR3-662: Modification of NPA-NXX - Effective Date versus Current Date
 RR3-663: Modification of NPA-NXX - New Effective Date versus No Pending SVs or Scheduled NPA-NXX-Xs/Number Pool Blocks
 RR3-664: Modification of NPA-NXX - Validation Error
 RR3-665: Service Provider SOA NPA-NXX Modification Flag Indicator
 RR3-666: Service Provider SOA NPA-NXX Modification Flag Indicator Default
 RR3-667: Service Provider SOA NPA-NXX Modification Flag Indicator Modification
 RR3-668: Service Provider LSMS NPA-NXX Modification Flag Indicator
 RR3-669: Service Provider LSMS NPA-NXX Modification Flag Indicator Default
 RR3-670: Service Provider LSMS NPA-NXX Modification Flag Indicator Modification
 RR3-671: Modification of NPA-NXX - Service Provider SOA NPA-NXX Modification Flag Indicator set to FALSE
 RR3-672: Modification of NPA-NXX - Service Provider SOA NPA-NXX Modification Flag Indicator set to TRUE
 RR3-673: Modification of NPA-NXX - Service Provider LSMS NPA-NXX Modification Flag Indicator set to FALSE
 RR3-674: Modification of NPA-NXX - Service Provider LSMS NPA-NXX Modification Flag Indicator set to TRUE
 RR3-675: Service Provider SOA NPA-NXX Modify BDD File Indicator
 RR3-676: Service Provider SOA NPA-NXX Modify BDD File Indicator Default
 RR3-677: Service Provider SOA NPA-NXX Modify BDD File Indicator Modification
 RR3-678: Service Provider LSMS NPA-NXX Modify BDD File Indicator
 RR3-679: Service Provider LSMS NPA-NXX Modify BDD File Indicator Default
 RR3-680: Service Provider LSMS NPA-NXX Modify BDD File Indicator Modification

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- ☒ (no answer)
- ☐ Yes
- ☐ No

3.4.3* QUESTION:

TRD FRS Section 3: Sub Section 3.4.3: Valid NPA-NXXs for each Service Provider

The following requirements allow for maintaining valid OCN and NPA NXX lists for each SPID.

Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?

RR3-681: Valid NPA-NXXs for each SPID
RR3-682: Maintaining List of Valid NPA-NXXs for each SPID
RR3-683: Updating List of Valid NPA-NXXs for each SPID
RR3-684: Valid OCNs for each SPID
RR3-685: Maintaining List of Valid OCNs for each SPID
RR3-686: Updating List of Valid OCNs for each SPID
RR3-687: Rejection of NPA-NXXs that Do Not Belong to the OCN/SPID
RR3-688: Regional NPAC NPA-NXX Ownership Edit Flag Indicator
RR3-689: Regional NPAC NPA-NXX Ownership Edit Flag Indicator Modification
RR3-690: Regional NPAC NPA-NXX Ownership Edit Flag Indicator - Default Value
RR3-691: Rejection of NPA Split for an NPA-NXX that Does Not Belong to the OCN/SPID

- ☒ (no answer)
- ☐ Yes
- ☐ No

3.4.4* QUESTION:

TRD FRS Section 3: Sub Section 3.4.4: Pseudo-LRN in a Region Data Validations

The following requirements provide for the proper use of Pseudo-LRNs in the NPAC/SMS.

Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?

RR3-713: LRN Record – Pseudo-LRN value in the NPAC/SMS
RR3-714: LRN Record – Pseudo-LRN restriction in the NPAC/SMS
RR3-715: LRN Record – Pseudo-LRN query in the NPAC/SMS
RR3-716: Region Supports Pseudo-LRN Indicator

EXHIBIT A-3

RR3-717: Region Supports Pseudo-LRN Modification

RR3-718: Region Supports Pseudo-LRN Indicator – Default Value

☒ (no answer)

☐ Yes

☐ No

3.5* **QUESTION:**

TRD FRS Section 3: Sub Section 3.5: NPA Splits Requirements

Section 3.5 defines NPA Split functionality within the NPAC/SMS. The primary means of processing NPA Split information within the NPAC/SMS is through automated and regular processing of NPA Split Load Flat Files from industry source data. In the event of an 'emergency' there is a manual process by which authorized NPAC personnel may enter required NPA Split information in order to initiate appropriate processing. This manual process is reserved for only 'back-up or emergency' situations as deemed by industry and NPAC representatives.

Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?

RN3-1: NPA Split Permissive Dialing

RN3-2: NPA Split

RN3-3: NPA Split Permissive Dialing Cleanup

RR3-281: NPA Split - Load File from Industry Source Data

RR3-282: NPA Split - Load File from Industry Source Data During Housekeeping Process

RR3-283: NPA Split - Load File from Industry Source Data Processing Results

RR3-284: NPA Split - Load File from Industry Source Data, Reject existing new NPA-NXX

RR3-285: NPA Split - Load File from Industry Source Data, Generate new NPA-NXX

RR3-286: NPA Split - Load File from Industry Source Data, Delete new NPA-NXX

RR3-287: NPA Split - NPA Split Load Flat File Exception Report with An Existing New NPA-NXX

RR3-288: NPA Split - Load File from Industry Source Data, Verifying Old and New NPA-NXX

RR3-289: NPA Split - Load File from Industry Source Data, Pushing Out PDP Start Date

RR3-290: NPA Split - Load File from Industry Source Data, Pulling In PDP Start Date

RR3-291: NPA Split - Load File from Industry Source Data, Error Modifying PDP Start Date with Existing Subscription Versions

RR3-292: NPA Split - Load File from Industry Source Data, Complete Processing of File

RR3-293: NPA Split - Load File from Industry Source Data, Re-Processing of File

RR3-294: NPA Split - Load File from Industry Source Data, Error Modifying PDP Start Date for NPA Split Already in Progress

RR3-295: NPA Split - Load File from Industry Source Data, Adding an NXX to an Existing Split

RR3-296: NPA Split - Load File from Industry Source Data Information on the Web

AN3-4.1: NPA Split Information Source

AN3-4.2: NPAC Personnel Manual NPA Split Request

RN3-4.1: NPA Split - NPA-NXX existence prior to the NPA Split

FRS Section 3: Sub Section 3.5: Requirement RN3-4.2: NPA Split - New NPA-NXX existence prior to the NPA Split - Error

RR3-436: NPA Split - Old NPA-NXX non-existence prior to the NPA Split - Error

RR3-437: NPA Split - New NPA-NXX Creation

RN3-4.6: NPA Split - NPA-NXX involved in one NPA Split Validation

RR3-297: NPA Split - NPA Split Load Flat File Exception Report with New NPA-NXX Already Involved in NPA Split

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RN3-4.7: NPA Split - No Active Subscription Versions in the new NPA-NXX
 RN3-4.8: NPA Split - No Active Subscription Versions in the new NPA-NXX - Error
 RN3-4.9: NPA Split - Prevention of NPA-NXX Deletion
 RN3-4.11: NPA Split - No modification of LRN data
 RN3-4.12: NPA Split - Exception Processing for Subscription Versions that exist in the New and Old NPA-NXX
 RN3-4.13: NPA Split - No Modification of Filter Data
 RN3-4.14: NPA Split - Audit Processing
 RN3-4.15: NPA Split - Entering of Split Data
 RN3-4.16: NPA Split - Modification of End Date of Permissive Dialing Date
 RR3-438: NPA Split - Modification of Start Date of Permissive Dialing Date
 RN3-4.17: NPA Split - Removal of NPA-NXX during Permissive Dialing
 RN3-4.18: NPA Split - Removal of NPA-NXX during Permissive Dialing - Subscription Version Processing
 RN3-4.20: NPA Split - Removal of NPA Split Information prior to NPA Split
 RN3-4.21: NPA Split - Removal of NPA Split Information after Permissive Dialing Period End Date
 RN3-4.22: NPA Split - No Broadcast of Subscription Version Modification
 RN3-4.23: NPA Split - Retention of Subscription Version Id
 RN3-4.24: NPA Split - Update of Subscription Versions at the Beginning of Permissive Dialing
 RN3-4.25: NPA Split - Old NPA-NXX involved in one NPA Split Validation
 RN3-4.26: NPA Split - Old NPA-NXX involved in one NPA Split Validation - Error
 RR3-298: NPA Split - NPA Split Load Flat File Exception Report with Old NPA-NXX Already Involved in NPA Split
 RN3-4.27: NPA Split - Validation of the Permissive Dialing Period
 RN3-4.28: NPA Split - Old NPA-NXX and New NPA-NXX Ownership Validation
 RR3-299: NPA Split - NPA Split Load Flat File Exception Report with Mismatched SPIDs for Old and New NPA-NXX
 RN3-4.30: NPA Split - Creation of a Subscription Version during the Permissive Dialing Period
 RN3-4.31: NPA Split - Current and Pending NPA Split Report
 RN3-4.32: NPA Split - NPA Split History Report
 RR3-219: NPA Splits - Deletion of Old NPA-NXX at the end of permissive dialing

☒ (no answer)

☐ Yes

☐ No

3.5.1* QUESTION:

TRD FRS Section 3: Sub Section 3.5.1: NPA-NXX-X, NPA Splits

The following requirements address Number Pools and NPA-NXX-X information.

Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?

RR3-31: NPA Splits and the Number Pool NPA-NXX-X Information - New NPA Split Automatic Create of New NPA-NXX-X
 RR3-32: NPA Splits and the Number Pool NPA-NXX-X Information - New NPA Split Error Message if New NPA-NXX-X Already Exists
 RR3-300: NPA Split - NPA Split Load Flat File Exception Report with Already Existing New NPA-NXX-X
 RR3-33: NPA Splits and the Number Pool NPA-NXX-X Information - New NPA Split Field Values for Automatic Add of New NPA-NXX-X
 RR3-34: NPA Splits and the Number Pool NPA-NXX-X Information - New NPA Split, Skip Block and Subscription Version Create

EXHIBIT A-3

RR3-35: NPA Splits and the Number Pool NPA-NXX-X Information - NXX Removal from NPA Split prior to the end of PDP
 RR3-36.1: NPA Splits and the Number Pool NPA-NXX-X Information - Addition of an NPA-NXX-X scheduled for an NPA Split
 RR3-36.2: NPA Splits and the Number Pool NPA-NXX-X Information - New Addition of an NPA-NXX-X scheduled for an NPA Split With an Error Message
 RR3-36.3: NPA Splits and the Number Pool NPA-NXX-X Information - Addition of an NPA-NXX-X currently in Permissive Dialing in an NPA Split
 RR3-37.1: NPA Splits and the Number Pool NPA-NXX-X Information - Modification of an NPA-NXX-X scheduled for an NPA Split
 RR3-37.2: NPA Splits and the Number Pool NPA-NXX-X Information - New Modification of an NPA-NXX-X scheduled for an NPA Split With an Error Message
 RR3-37.3: NPA Splits and the Number Pool NPA-NXX-X Information - Modification of an NPA-NXX-X involved in an NPA Split
 RR3-38.1: NPA Splits and the Number Pool NPA-NXX-X Information - Deletion of an NPA-NXX-X involved in an NPA Split
 RR3-38.2: NPA Splits and the Number Pool NPA-NXX-X Information - New Deletion of an NPA-NXX-X scheduled for an NPA Split With an Error Message
 RR3-38.3: NPA Splits and the Number Pool NPA-NXX-X Information - Deletion of an NPA-NXX-X involved in an NPA Split
 RR3-39: NPA Splits and the Number Pool NPA-NXX-X Information - Broadcast of Addition or Deletion of NPA-NXX-X Split Data
 RR3-40: NPA Splits and the Number Pool NPA-NXX-X Information - Deletion of Old NPA-NXX-X at the end of permissive dialing

- ☒ (no answer)
- ☐ Yes
- ☐ No

3.5.2* QUESTION:

TRD FRS Section 3: Sub Section 3.5.2: Block Holder, NPA Splits

The following requirements address NPA Splits and Block Holder information.

Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?

RR3-41: NPA Splits and the Number Pooling Block Holder Information – Recognition of Both Old NPA and New NPA
 RR3-42: NPA Splits and the Number Pooling Block Holder Information – NXX Removal from Split
 RR3-43: NPA Splits and the Number Pool Block Holder Information – Addition of a Block involved in an NPA Split
 RR3-44: NPA Splits and the Number Pool Block Holder Information – Addition of a Block for an NPA-NXX involved in an NPA Split
 RR3-45: NPA Splits and the Number Pool Block Holder Information – Broadcast of a Block Create for an NPA-NXX involved in an NPA Split
 RR3-46: NPA Splits and the Number Pool Block Holder Information – Modification of a Block for an NPA-NXX involved in an NPA Split
 RR3-47: NPA Splits and the Number Pool Block Holder Information – Broadcast of a Block Modify Active for an NPA-NXX involved in an NPA Split
 RR3-48: NPA Splits and the Number Pool Block Holder Information – De-pooling of the Block during PDP
 RR3-49: NPA Splits and the Number Pool Block Holder Information – Mass Update that includes one or more Blocks for an NPA-NXX involved in an NPA Split

EXHIBIT A-3

RR3-50: NPA Splits and the Number Pool Block Holder Information – Broadcast of a Mass Update that includes one or more Blocks for an NPA-NXX involved in an NPA Split

RR3-218: NPA Splits and the Number Pool Block Holder Information – Broadcast of Subscription Versions for an NPA-NXX involved in an NPA Split

- ☒ (no answer)
- ☐ Yes
- ☐ No

3.6 STATEMENT:

TRD FRS Section 3: Sub Section 3.6: NPA-NXX Filter Management Requirements

The FRS Section 3.6 requirements address NPAC/SMS Filter Management that allows for NPAC personnel and/or Service Providers to add, delete and query NPA and NPA NXX filters to manage information that is broadcast to a given Local SMS.

3.6.1* QUESTION:

TRD FRS Section 3: Sub Section 3.6.1: NPA-NXX Level Filters

The following requirements address creation, deletion and querying of NPA-NXX level filters.

Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?

- RR3-5: Create Filtered NPA-NXX for a Local SMS
- RR3-6: Delete Filtered NPA-NXX for a Local SMS
- RR3-7: Query Filtered NPA-NXXs for a Local SMS
- RR3-8: Query Filtered NPA-NXXs - NPA-NXX Not Provided
- RR3-9: Query Filtered NPA-NXXs - NPA-NXX Provided
- RR3-768: Delete Filtered NPA-NXX - Deletion of NPA-NXX

- ☒ (no answer)
- ☐ Yes
- ☐ No

3.6.2* QUESTION:

TRD FRS Section 3: Sub Section 3.6.2: NPA Level Filters

EXHIBIT A-3

The following requirements address the creation, deletion and querying of NPA level filters.

Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?

RR3-692: Create Filtered NPA for a Local SMS - Existing NPA-NXX not Required

RR3-692.5: Create Filtered NPA for a Local SMS and SOA - Delete Subordinate NPA-NXXs

RR3-693: Filtered NPA Behavior for a Local SMS

RR3-694: Delete Filtered NPA for a Local SMS

RR3-695: Filtered NPA Behavior - Overlap Allowed

RR3-696: Create Filtered NPA-NXX for a Local SMS - NPAC Personnel - Existing NPA-NXX Not Required



(no answer)



Yes



No

3.7* QUESTION:

TRD FRS Section 3: Sub Section 3.7: Business Hour and Days Requirements

The FRS Section 3.7 requirements are related to definition and processing of long, medium and short business hours and days for operations involving business time calculation including holidays.

Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?

RR3-10: Business Hours and Days

RR3-229: Short Business Days Tunable Parameter

RR3-230: Short Business Days Tunable Parameter - Default Value

RR3-231: Short Business Days Tunable Parameter - Valid Values

RR3-232: Short Business Days Tunable Parameter - Modification

RR3-498: Medium Business Days Tunable Parameter

RR3-499: Medium Business Days Tunable Parameter - Default Value

RR3-500: Medium Business Days Tunable Parameter - Valid Values

RR3-501: Medium Business Days Tunable Parameter - Modification

RR3-233: Long Business Days Tunable Parameter

RR3-234: Long Business Days Tunable Parameter - Default Value

RR3-235: Long Business Days Tunable Parameter - Valid Values

RR3-236: Long Business Days Tunable Parameter - Modification

RR3-12.1: Business Day Duration - Tunable Parameter

RR3-12.2: Business Day Duration - Tunable Parameter Modification

RR3-12.3: Short Business Day Duration - Tunable Parameter Default

RR3-502: Medium Business Day Duration - Tunable Parameter Default

RR3-12.4: Long Business Day Duration - Tunable Parameter Default

RR3-13.1: Business Day Start Time - Tunable Parameter

RR3-13.2: Business Day Start Time - Tunable Parameter Modification

RR3-13.3: Short Business Day Start Time - Tunable Parameter Default

RR3-503: Medium Business Day Start Time - Tunable Parameter Default

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RR3-13.4: Long Business Day Start Time - Tunable Parameter Default

RR3-14: Business Holidays

☒ (no answer)

☐ Yes

☐ No

3.8 STATEMENT:

TRD FRS Section 3: Sub Section 3.8: Notifications

The FRS Section 3.8 requirements are related to TN range notification indicators, SP Concurrence notification indicators, SOA notifications, Attribute value change notifications, and Attribute flag indicators.

3.8.1* QUESTION:

TRD FRS Section 3: Sub Section 3.8.1: TN Range: Notification Indicator

The following requirements address notification indicators for TN ranges.

Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?

RR3-237: NPAC Customer TN Range: Notification Indicator

RR3-238: NPAC Customer TN Range: Notification Indicator - Default

RR3-239: NPAC Customer TN Range: Notification Indicator - Modification

☒ (no answer)

☐ Yes

☐ No

3.8.2* QUESTION:

TRD FRS Section 3: Sub Section 3.8.2: Customer No New Concurrence: Notification Indicator

The following requirements address notification indicators when new provider concurrence is not provided.

EXHIBIT A-3

Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?

RR3-240: NPAC Customer No New SP Concurrence Notification Indicator
 RR3-241: NPAC Customer No New SP Concurrence Notification Indicator - Default
 RR3-242: NPAC Customer No New SP Concurrence Notification Indicator - Modification
 RR3-243: Subscription Version Information - Suppress Notification when Service Provider No New SP Concurrence Notification Indicator is False
 RR3-244: Subscription Version Information - Send Notification when Service Provider No New SP Concurrence Notification Indicator is True

- ☒ (no answer)
☐ Yes
☐ No

3.8.3* QUESTION:

TRD FRS Section 3: Sub Section 3.8.3: SOA Notification Priority

The following requirements address SOA notification priority elements.

Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?

RR3-245: SOA Notification Priority Tunable Parameter
 RR3-246: SOA Notification Priority Based on Attributes
 RR3-247: SOA Notification Priority Tunable Parameter based on Old or New Service Provider Status
 RR3-248: SOA Notification Priority Tunable Parameter - Valid Values
 RR3-249: SOA Notification Priority Tunable Parameter - Default Value
 RR3-250 : Modifying the SOA Notification Priority Tunable Parameter Value
 RR3-251: SOA Notification Priority Processing
 RR3-252: SOA Notification Priority Tunable Parameter -Value Equal to NONE
 RR3-253: Processing of SOA Notification Queues

- ☒ (no answer)
☐ Yes
☐ No

3.8.4* QUESTION:

TRD FRS Section 3: Sub Section 3.8.4: TN and Number Pool Block In Notifications

The following requirements address notifications related to TN and Number Pool Blocks.

EXHIBIT A-3

Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?

RR3-452: Subscription Version Status Attribute Value Change - Send TN
 RR3-453: Subscription Version Attribute Value Change - Send TN
 RR3-454: Number Pool Block Status Attribute Value Change - Send NPA-NXX-X
 RR3-455: Number Pool Block Attribute Value Change - Send NPA-NXX-X
 RR3-456: Subscription Version TN Attribute Flag Indicator
 RR3-457: Modification of Subscription Version TN Attribute Flag Indicator
 RR3-458: Subscription Version TN Attribute Flag Indicator Default Value
 FRS Section 3: Sub Section 3.8.4: Requirement RR3-459: Number Pool Block NPA-NXX-X Attribute Flag Indicator
 RR3-460: Modification of Number Pool Block NPA-NXX-X Attribute Flag Indicator
 RR3-461: Number Pool Block NPA-NXX-X Attribute Flag Indicator Default Value

- ☒ (no answer)
☐ Yes
☐ No

3.9 STATEMENT:

TRD FRS Section 3: Sub Section 3.9: Service Provider Support Indicators

The FRS Section 3.9 requirements define service provider tunable features that indicate if a service provider system supports optional data functionality defined as part of NANC 399.

3.9.1* QUESTION:

TRD FRS Section 3: Sub Section 3.9.1: SV Type and Alternative SPID Indicators

The following requirements address indicators for SV Type and Alternative SPID.

Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?

RR3-484: Service Provider SOA SV Type Edit Flag Indicator
 RR3-485: Service Provider SOA SV Type Edit Flag Indicator Default
 RR3-486: Service Provider SOA SV Type Edit Flag Indicator Modification
 RR3-487: Service Provider LSMS SV Type Edit Flag Indicator
 RR3-488: Service Provider LSMS SV Type Edit Flag Indicator Default
 RR3-489: Service Provider LSMS SV Type Edit Flag Indicator Modification
 RR3-490: Service Provider SOA Alternative SPID Edit Flag Indicator
 RR3-491: Service Provider SOA Alternative SPID Edit Flag Indicator Default
 RR3-492: Service Provider SOA Alternative SPID Edit Flag Indicator Modification
 RR3-493: Service Provider LSMS Alternative SPID Edit Flag Indicator
 RR3-494: Service Provider LSMS Alternative SPID Edit Flag Indicator Default

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RR3-495: Service Provider LSMS Alternative SPID Edit Flag Indicator Modification
 RR3-504: Service Provider SOA Last Alternative SPID Edit Flag Indicator
 RR3-505: Service Provider SOA Last Alternative SPID Edit Flag Indicator Default
 RR3-506: Service Provider SOA Last Alternative SPID Edit Flag Indicator Modification
 RR3-507: Service Provider LSMS Last Alternative SPID Edit Flag Indicator
 RR3-508: Service Provider LSMS Last Alternative SPID Edit Flag Indicator Default
 RR3-509: Service Provider LSMS Last Alternative SPID Edit Flag Indicator Modification

☒ (no answer)

☐ Yes

☐ No

3.9.2* QUESTION:

TRD FRS Section 3: Sub Section 3.9.2: Alternative-End User Location and Alternative Billing ID Indicators

The following requirements define service provider tunable features that indicate if a service provider system supports optional data functionality defined as part of NANC 436.

Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?

RR3-510: Service Provider SOA Alt-End User Location Value Edit Flag Indicator
 RR3-511: Service Provider SOA Alt-End User Location Value Edit Flag Indicator Default
 RR3-512: Service Provider SOA Alt-End User Location Value Edit Flag Indicator Modification
 RR3-513: Service Provider SOA Alt-End User Location Type Edit Flag Indicator
 RR3-514: Service Provider SOA Alt-End User Location Type Edit Flag Indicator Default
 RR3-515: Service Provider SOA Alt-End User Location Type Edit Flag Indicator Modification
 RR3-516: Service Provider SOA Alt-Billing ID Edit Flag Indicator
 RR3-517: Service Provider SOA Alt-Billing ID Edit Flag Indicator Default
 RR3-518: Service Provider SOA Alt-Billing ID Edit Flag Indicator Modification

☒ (no answer)

☐ Yes

☐ No

3.9.3* QUESTION:

TRD FRS Section 3: Sub Section 3.9.3: URI Indicators

The following requirements define service provider tunable features that indicate if a service provider system supports optional data functionality defined for URIs.

EXHIBIT A-3

Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?

RR3-519: Service Provider SOA Voice URI Edit Flag Indicator
 RR3-520: Service Provider SOA Voice URI Edit Flag Indicator Default
 RR3-521: Service Provider SOA Voice URI Edit Flag Indicator Modification
 RR3-522: Service Provider LSMS Voice URI Edit Flag Indicator
 RR3-523: Service Provider LSMS Voice URI Edit Flag Indicator Default
 RR3-524: Service Provider LSMS Voice URI Edit Flag Indicator Modification
 RR3-525: Service Provider SOA MMS URI Edit Flag Indicator
 RR3-526: Service Provider SOA MMS URI Edit Flag Indicator Default
 RR3-527: Service Provider SOA MMS URI Edit Flag Indicator Modification
 RR3-528: Service Provider LSMS MMS URI Edit Flag Indicator
 RR3-529: Service Provider LSMS MMS URI Edit Flag Indicator Default
 RR3-530: Service Provider LSMS MMS URI Edit Flag Indicator Modification
 RR3-531: Service Provider SOA SMS URI Edit Flag Indicator
 RR3-532: Service Provider SOA SMS URI Edit Flag Indicator Default
 RR3-533: Service Provider SOA SMS URI Edit Flag Indicator Modification
 RR3-534: Service Provider LSMS SMS URI Edit Flag Indicator
 RR3-535: Service Provider LSMS SMS URI Edit Flag Indicator Default
 RR3-536: Service Provider LSMS SMS URI Edit Flag Indicator Modification

- ☒ (no answer)
☐ Yes
☐ No

3.9.4* QUESTION:

TRD FRS Section 3: Sub Section 3.9.4: Medium Timers Support Indicators

The following requirements define service provider tunable features that indicate if a service provider system supports simple port medium timer functionality defined as part of NANC 440 and 441.

Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?

RR3-537: Medium Timers Support Indicator
 RR3-538: Medium Timers Support Indicator Default
 RR3-539: Medium Timers Support Indicator Modification

- ☒ (no answer)
☐ Yes
☐ No

3.9.5* QUESTION:

EXHIBIT A-3

TRD FRS Section 3: Sub Section 3.9.5: Pseudo-LRN Support Indicators

The following requirements define service provider tunable features that indicate if a service provider system supports Pseudo-LRN functionality.

Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?

- RR3-719: Service Provider SOA Pseudo-LRN
- RR3-720: Service Provider SOA Pseudo-LRN Indicator Default
- RR3-721: Service Provider SOA Pseudo-LRN Indicator Modification
- RR3-722: Service Provider LSMS Pseudo-LRN Indicator
- RR3-723: Service Provider LSMS Pseudo-LRN Indicator Default
- RR3-724: Service Provider LSMS Pseudo-LRN Indicator Modification
- RR3-725: Service Provider SOA Pseudo-LRN Notification Indicator
- RR3-726: Service Provider SOA Pseudo-LRN Notification Indicator Default
- RR3-727: Service Provider SOA Pseudo-LRN Notification Indicator Modification
- RR3-728: Service Provider Low-Tech Interface Pseudo-LRN Support Flag Indicator
- RR3-729: Provider Low-Tech Interface Pseudo-LRN Support Flag Indicator Default
- RR3-730: Service Provider Low-Tech Interface Pseudo-LRN Support Flag Indicator Modification
- RR3-731: Service Provider SOA Force Pseudo-LRN BDD Indicator
- RR3-732: Service Provider SOA Force Pseudo-LRN BDD Indicator Default
- RR3-733: Service Provider SOA Force Pseudo-LRN BDD Indicator Modification
- RR3-734: Service Provider LSMS Force Pseudo-LRN BDD Indicator
- RR3-735: Service Provider LSMS Force Pseudo-LRN BDD Indicator Default
- RR3-736: Service Provider LSMS Force Pseudo-LRN BDD Indicator Modification

- ☒ (no answer)
- ☐ Yes
- ☐ No

3.10* QUESTION:

TRD FRS Section 3: Sub Section 3.10: Multiple Service Provider IDs per SOA Association Requirements

The FRS Section 3.10 requirements define the management of primary and associated Service Provider IDs per SOA association.

Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?

- RR3-16 : Addition of NPAC Customer Associated Service Provider Information
- RR3-17: Deletion of NPAC Customer Associated Service Provider Information
- RR3-18: NPAC Customer Associated Service Provider Information - SPID validation
- RR3-19 : NPAC Customer Associated Service Provider Information - Associated SPID
- A3-5 : Associated Service Provider Multiple Service Provider Ids
- RR3-20: NPAC Customer Associated Service Provider Information - Validation Error
- RR3-21: NPAC Deletion of Service Provider Validation

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RR3-22 : Association Rejection for Associated Service Provider Id
 RR3-23 : Associated Service Provider Id Use over a Primary Service Provider Id Association
 RR3-24: Validation of Old and New/Current for Associated Service Provider Id
 RR3-25: Use of Primary Service Provider Key List
 RR3-26: Notifications for Associated Service Providers
 C3-1: Associated Service Provider Notification Aggregation
 RR3-27: Filters for Associated Service Providers
 RR3-28: Associated Service Provider and Primary Service Provider messages
 RR3-29: Recovery for an Associated Service Provider

- ☒ (no answer)
☐ Yes
☐ No

3.11 STATEMENT:

TRD FRS Section 3: Sub Section 3.11: Bulk Data Download Functionality

The FRS Section 3.11 requirements describe Bulk Data Download functionality supported by the NPAC/SMS. The NPAC can generate files for Network Data (including SPID, LRN, NPA-NXX and NPA-NXX-X), and Subscription Versions (including Number Pool Blocks). The NPAC/SMS also has the ability to process Bulk Data Download Response files from Service Providers. Separate SOA and LSMS Indicators for a Service Provider are available.

3.11.1* QUESTION:

TRD FRS Section 3: Sub Section 3.11.1: Bulk Data Download Functionality - General

The following requirements address general Bulk Data Download functionality.

Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?

RR3-220: Bulk Data Download File Creation
 RR3-221: Bulk Data Download - File Naming Convention
 RR3-222: Bulk Data Download - File Format
 RR3-223: Bulk Data Download - Selection Criteria for File Creation
 RR3-697: Bulk Data Download - Separate SOA and LSMS Indicators

- ☒ (no answer)
☐ Yes
☐ No

EXHIBIT A-3

3.11.2* QUESTION:

TRD FRS Section 3: Sub Section 3.11.2: Network Data, Bulk Data Download

The following requirements address network data information related to bulk data downloads.

Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?

- RR3-224: Bulk Data Download - Required Selection Criteria for Network Data File Generation
- RR3-301: Network Data Information Bulk Download File Creation - Selection Criteria
- RR3-302: Network Data Information Bulk Download File Creation - All Network Data or Latest View of Network Data Activity Choice
- RR3-303: Network Data Information Bulk Download File Creation - Data in All Network Data Choice
- RR3-304: Network Data Information Bulk Download File Creation - Data in Latest View of Network Data Activity Choice
- RR3-305: Network Data Information Bulk Download File Creation - Time Range Fields
- RR3-306: Network Data Information Bulk Download File Creation - Time Range Fields and Network Data Data Model
- RR3-307: Network Data Information Bulk Download File Creation - Selection Criteria Combinations
- RR3-308: Network Data Information Bulk Data Download - Network Data Results
- RR3-309: Network Data Information Bulk Data Download - Network Data Results Sort Order
- RR3-310: Network Data Information Bulk Data Download - Filters for Network Data
- RR3-311: Network Data Information Bulk Data Download - Secure FTP Sub-Directory
- RR3-481: Service Provider Data Information Bulk Data Download - Support for Service Provider Type Data

- ☒ (no answer)
- ☐ Yes
- ☐ No

3.11.3* QUESTION:

TRD FRS Section 3: Sub Section 3.11.3: Subscription Version, Bulk Data Download

The following requirements address subscription version information related to bulk data downloads.

Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?

- RR3-225: Bulk Data Download -Required Selection Criteria for Subscription Data File Generation
- RR3-312: Subscription Version Information Bulk Download File Creation - Selection Criteria
- RR3-313: Subscription Version Information Bulk Download File Creation - Active/Disconnect Pending/Partial Failure Subscription Versions Only or Latest View of Subscription Version Activity Choice
- RR3-314: Subscription Version Information Bulk Download File Creation - Data in Active/Disconnect Pending/Partial Failure Subscription Versions Only Choice
- RR3-315: Subscription Version Information Bulk Download File Creation - Data in Latest View of Subscription Version Activity Choice

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RR3-316: Subscription Version Information Bulk Download File Creation - Time Range Fields
 RR3-317: Subscription Version Information Bulk Download File Creation - Time Range Fields and SV Data Model
 RR3-318: Subscription Version Information Bulk Download File Creation - TN Range Fields
 RR3-319: Subscription Version Information Bulk Download File Creation - Selection Criteria Combinations
 RR3-320: Subscription Version Information Bulk Data Download - Subscription Version Results
 RR3-321: Subscription Version Information Bulk Data Download - Subscription Version Results Sort Order
 RR3-322: Subscription Version Information Bulk Data Download - Filters for Subscription Versions
 RR3-323: Subscription Version Information Bulk Data Download - EDR LSMSs
 RR3-227: Bulk Data Download - Secure FTP Sub-Directory
 RR3-324: Bulk Download File Creation - Pooled Subscription Versions Filtered for EDR Local SMS
 RR3-737: Subscription Version Bulk Download File Creation for SOA - Pseudo-LRN Inclusion
 RR3-738: Subscription Version Bulk Download File Creation for LSMS - Pseudo-LRN Inclusion

- ☒ (no answer)
☐ Yes
☐ No

3.11.4* QUESTION:

TRD FRS Section 3: Sub Section 3.11.4: NPA-NXX-X Holder, Bulk Data Download

The following requirements address NPA-NXX-X holder information related to bulk data downloads.

Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?

RR3-116: Number Pool NPA-NXX-X Holder Information Bulk Download File - Separate File containing all NPA-NXX-X Data
 RR3-117: Number Pool NPA-NXX-X Holder Information Bulk Download File - Filters for NPA-NXX-X Data
 RR3-118: Number Pool NPA-NXX-X Holder Information Bulk Download File - Secure FTP Sub-Directory
 RR3-739: Number Pool NPA-NXX-X Holder Information Bulk Download File Creation for SOA - Pseudo-LRN Inclusion
 RR3-740: Number Pool NPA-NXX-X Holder Information Bulk Download File Creation for LSMS - Pseudo-LRN Inclusion

- ☒ (no answer)
☐ Yes
☐ No

3.11.5* QUESTION:

TRD FRS Section 3: Sub Section 3.11.5: Block Holder, Bulk Data Downloads

The following requirements address Number Pool Block holder information related to bulk data downloads.

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Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?

RR3-198: Number Pool Block Holder Information Bulk Download File Creation - Blocks
 RR3-199: Number Pool Block Holder Information Bulk Download File Creation - Selection Criteria
 RR3-200.1: Number Pool Block Holder Information Bulk Download File Creation - Active and Partial Failure Blocks Only or Latest View of Block Activity Choice
 RR3-200.2: Number Pool Block Holder Information Bulk Download File Creation - Data in Active Blocks Only Choice
 RR3-200.3: Number Pool Block Holder Information Bulk Download File Creation - Data in Latest View of Block Activity Choice
 RR3-201.1: Number Pool Block Holder Information Bulk Download File Creation - Time Range Fields
 RR3-201.2: Number Pool Block Holder Information Bulk Download File Creation - Time Range Fields and Block Data Model
 RR3-202: Number Pool Block Holder Information Bulk Download File Creation - Block Range Fields
 RR3-203: Number Pool Block Holder Information Bulk Download File Creation - Selection Criteria Combinations
 RR3-204: Number Pool Block Holder Information Bulk Data Download - Block Results
 RR3-205: Number Pool Block Holder Information Bulk Data Download - Block Results Sort Order
 RR3-206: Number Pool Block Holder Information Bulk Data Download - Filters for Blocks
 RR3-207: Number Pool Block Holder Information Bulk Data Download - Secure FTP Sub-Directory
 RR3-741: Number Pool Block Holder Information Bulk Download File Creation for SOA - Pseudo-LRN Inclusion
 RR3-742: Number Pool Block Holder Information Bulk Download File Creation for LSMS - Pseudo-LRN Inclusion

☒ (no answer)

☐ Yes

☐ No

3.11.6* QUESTION:

TRD FRS Section 3: Sub Section 3.11.6: Notifications, Bulk Data Download

The following requirements address notifications related to bulk data downloads.

Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?

RR3-462: Notification BDD Selection Criteria Fields
 RR3-463: Notification BDD Required Selection Criteria
 RR3-464: Notification BDD File Name
 RR3-465: Notification BDD Time Range
 RR3-466: Notification BDD Results
 RR3-467: Notification BDD Sort Order
 RR3-468: Notification BDD Filters
 RR3-469: Notification BDD Secure FTP Sub-Directory
 RR3-540: Notification BDD Service Provider Timer Type Business Hours Attributes Indicator
 RR3-541: Notification BDD Service Provider Timer Type Business Hours Attributes Indicator Default
 RR3-542: Notification BDD Service Provider Timer Type Business Hours Attributes Indicator Modification

EXHIBIT A-3

- ☒ (no answer)
- ☐ Yes
- ☐ No

3.11.7* QUESTION:

TRD FRS Section 3: Sub Section 3.11.7: Bulk Data Download Response Files

The following requirements address bulk data download response files.

Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?

RR3-325: File Name Format for Service Provider BDD Response File
RR3-326: File Contents for Service Provider BDD Response File
RR3-327: Complete File Processing for Service Provider BDD Response File
RR3-328: Processing of the Service Provider BDD Response File for Subscription Versions
RR3-329: Removing a Service Provider from a Subscription Version Failed SP List
RR3-330: Processing of the Service Provider BDD Response File for Number Pooling Blocks
RR3-331: Removing a Service Provider from a Number Pooling Block Failed SP List
RR3-332: Service Provider Not Found on the Failed SP List
RR3-333: Validation of SPID in the Service Provider BDD Response File Against SPID of the Secure FTP Directory

- ☒ (no answer)
- ☐ Yes
- ☐ No

3.12 STATEMENT:

TRD FRS Section 3: Sub Section 3.12: NPA-NXX-X Information

The FRS Section 3.12 requirements define how the NPAC/SMS provides a mechanism to indicate whether a Service Provider supports receiving the NPA-NXX-X data, by downloading this data to their SOA via the SOA to NPAC/SMS Interface, using the Number Pooling NPA-NXX-X and LSMS EDR indicators.

3.12.1* QUESTION:

TRD FRS Section 3: Sub Section 3.12.1: NPA-NXX-X Download Indicator Management

The following requirements address management of NPA-NXX-X download indicators.

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Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?

RR3-52: NPAC Customer SOA NPA-NXX-X Indicator
 RR3-53: NPAC Customer SOA NPA-NXX-X Indicator - Default
 RR3-54: NPAC Customer SOA NPA-NXX-X Indicator - Modification
 RR3-55: NPAC Customer LSMS NPA-NXX-X Indicator
 RR3-56: NPAC Customer LSMS NPA-NXX-X Indicator - Default
 RR3-57: NPAC Customer LSMS NPA-NXX-X Indicator - Modification
 RR3-58: NPAC Customer LSMS EDR Indicator
 RR3-59: NPAC Customer LSMS EDR Indicator - Default
 RR3-60: NPAC Customer LSMS EDR Indicator - Modification

- ☒ (no answer)
☐ Yes
☐ No

3.12.2* QUESTION:

TRD FRS Section 3: Sub Section 3.12.2: NPA-NXX-X Holder Information

The following requirements address Number Pool Block NPA-NXX-X Holder information.

Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?

RR3-61: Number Pool NPA-NXX-X Holder Information - NPAC Personnel OpGUI
 RR3-62: Number Pool NPA-NXX-X Holder Information - Service Provider Request
 RR3-63: Number Pool NPA-NXX-X Holder Information - NPA-NXX Validation
 RR3-65: Number Pool NPA-NXX-X Holder Information - Duplicate NPA-NXX-X Validation
 RR3-68: Number Pool NPA-NXX-X Holder Information - Service Provider Local SMS NPA-NXX-X Indicator Download of NPA-NXX-X Object
 RR3-69: Number Pool NPA-NXX-X Holder Information - Service Provider Local SMS NPA-NXX-X Indicator Suppression of Download of NPA-NXX-X Object
 RR3-743: Number Pool NPA-NXX-X Holder Information - Service Provider Local SMS Pseudo-LRN Indicator Download of NPA-NXX-X Object
 RR3-70: Number Pool NPA-NXX-X Holder Information - Filters for NPA-NXX-X Download to the Local SMS
 RR3-71: Number Pool NPA-NXX-X Holder Information - Service Provider SOA NPA-NXX-X Indicator Download of NPA-NXX-X Object
 RR3-72: Number Pool NPA-NXX-X Holder Information - Service Provider SOA NPA-NXX-X Indicator Suppression of Download of NPA-NXX-X Object
 RR3-744: Number Pool NPA-NXX-X Holder Information - Service Provider SOA Pseudo-LRN Indicator Download of NPA-NXX-X Object
 RR3-73: Number Pool NPA-NXX-X Holder Information - Filters for NPA-NXX-X Download to the SOA
 RR3-74: Number Pool NPA-NXX-X Holder Information - Validation Error

EXHIBIT A-3

- ☒ (no answer)
- ☐ Yes
- ☐ No

3.12.3* QUESTION:

TRD FRS Section 3: Sub Section 3.12.3: NPA-NXX-X Holder, NPAC Scheduling/Re-Scheduling of Block Creation

The following requirements address NPA-NXX-X block holder scheduling and re-scheduling of block creations.

Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?

- RR3-75.1: Number Pool NPA-NXX-X Holder Information -OpGUI Entry Field for NPAC or SOA Origination
- RR3-75.2: Number Pool NPA-NXX-X Holder Information -OpGUI Entry Mechanism for Immediate or Scheduled Block Creation
- RR3-75.3: Number Pool NPA-NXX-X Holder Information -OpGUI Entry Field for Scheduled Date/Time
- RR3-76.1: Number Pool NPA-NXX-X Holder Information -Default for Scheduled Date/Time Entry Field
- RR3-76.2: Number Pool NPA-NXX-X Holder Information -Scheduled Date/Time Entry Field Validation
- RR3-77: Number Pool NPA-NXX-X Holder Information -Use of Scheduled Date/Time and NPAC Origination Entry Fields
- RR3-78: Number Pool NPA-NXX-X Holder Information - Routing Data for NPAC Origination
- RR3-79.1: Number Pool NPA-NXX-X Holder Information - Routing Data Field Level Validation
- RR3-79.2: Number Pool NPA-NXX-X Holder Information - Routing Data LRN Validation
- RR3-80.1: Number Pool NPA-NXX-X Holder Information - Modification of Block Create Event
- RR3-80.2: Number Pool NPA-NXX-X Holder Information - Modification of Scheduled Date/Time for Block Create Event
- RR3-80.3: Number Pool NPA-NXX-X Holder Information - Modification of Routing Data for Block Create Event
- RR3-81.1: Number Pool NPA-NXX-X Holder Information - Re-schedule of NPAC Initiated Block Create
- RR3-81.2: Number Pool NPA-NXX-X Holder Information - Re-schedule of Block Create Scheduling Options
- RR3-81.3: Number Pool NPA-NXX-X Holder Information - Re-schedule of Block Create Immediate Execution Edit Check
- RR3-82.1: Number Pool NPA-NXX-X Holder Information - Reject Re-schedule Based on Status
- RR3-82.2: Number Pool NPA-NXX-X Holder Information - Reject Re-schedule Based on Existing Block Create Event
- RR3-82.3: Number Pool NPA-NXX-X Holder Information - Validation Error for Schedule/Re-Schedule of Block Create Event
- RR3-83.1: Number Pool NPA-NXX-X Holder Information - Error Message for Pending-Like No-Active SVs during Block Create
- RR3-83.2: Number Pool NPA-NXX-X Holder Information - Pending-Like No-Active SVs Report Output Destinations
- RR3-83.3: Number Pool NPA-NXX-X Holder Information - Pending-Like No-Active SVs Report Output Destinations for Multiple Destinations
- RR3-83.4: Number Pool NPA-NXX-X Holder Information - Output Destination for Pending-Like No-Active SVs

- ☒ (no answer)
- ☐ Yes
- ☐ No

EXHIBIT A-3

3.12.4* QUESTION:

TRD FRS Section 3: Sub Section 3.12.4: NPA-NXX-X Holder, Addition

The following requirements address addition of Number Pooling NPA-NXX-X holder information.

Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?

- RR3-84: Addition of Number Pooling NPA-NXX-X Holder Information - Required Fields
- RR3-85: Addition of Number Pooling NPA-NXX-X Holder Information - SPID Validation
- RR3-86: Addition of Number Pooling NPA-NXX-X Holder Information - Check for Pending-Like No-Active SVs
- RR3-87: Addition of Number Pooling NPA-NXX-X Holder Information - Check for Pending-Like Port-To-Original SVs
- RR3-88.1: Addition of Number Pooling NPA-NXX-X Holder Information - Error Message for Pending-Like No-Active SVs and Pending-Like Port-To-Original SVs
- RR3-88.2: Addition of Number Pooling NPA-NXX-X Holder Information -Pending-Like No-Active SVs and Pending-Like Port-To-Original SVs Report Selection of Output Destinations
- RR3-88.3: Addition of Number Pooling NPA-NXX-X Holder Information -Pending-Like No-Active SVs and Pending-Like Port-To-Original SVs Report Output Destinations for Multiple Destinations
- RR3-89: Addition of Number Pooling NPA-NXX-X Holder Information - Output Destination for Pending-Like No-Active SVs and Pending-Like Port-To-Original SVs
- RR3-482: Number Pooling NPA-NXX-X Holder Information Effective Date - Validation upon Addition
- RR3-745: Addition of Number Pooling NPA-NXX-X Holder Information - Active-LRN Number Pool Block Check for Pseudo-LRN SVs
- RR3-93: Addition of Number Pooling NPA-NXX-X Holder Information Effective Date - OpGUI Default
- RR3-94: Addition of Number Pooling NPA-NXX-X Holder Information - Successful Validation

- ☒ (no answer)
- ☐ Yes
- ☐ No

3.12.5* QUESTION:

TRD FRS Section 3: Sub Section 3.12.5: NPA-NXX-X Holder, Modification

The following requirements address modification of Number Pooling NPA-NXX-X holder information.

Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?

- RR3-95: Modification of Number Pool NPA-NXX-X Holder Information - Effective Date Modification from OpGUI
- RR3-96: Modification of Number Pool NPA-NXX-X Holder Information - Effective Date versus Current Date
- RR3-97: Modification of Number Pool NPA-NXX-X Holder Information - Effective Date Update to Scheduled Block Create
- RR3-483: Modification of Number Pool NPA-NXX-X Holder Information Effective Date - Validation
- RR3-746: Number Pool NPA-NXX-X Holder Information - Pseudo-LRN Indicator
- RR3-101: Modification of Number Pooling NPA-NXX-X Holder Information - Successful Validation

EXHIBIT A-3

- ☒ (no answer)
- ☐ Yes
- ☐ No

3.12.6* QUESTION:

TRD FRS Section 3: Sub Section 3.12.6: NPA-NXX-X Holder, Deletion

The following requirements address deletion of Number Pooling NPA-NXX-X holder information.

Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?

- RR3-102: Deletion of Number Pool NPA-NXX-X Holder Information - NPA-NXX-X Data
- RR3-103: Deletion of Number Pool NPA-NXX-X Holder Information - Single NPA-NXX-X at a time from OpGUI
- RR3-104: Deletion of Number Pooling NPA-NXX-X Holder Information - Check for Pending-Like With Active POOL SVs
- RR3-105: Deletion of Number Pooling NPA-NXX-X Holder Information - Check for Port-to-Original SVs
- RR3-106: Deletion of Number Pooling NPA-NXX-X Holder Information - Check for non-Active Block
- RR3-107: Deletion of Number Pooling NPA-NXX-X Holder Information - Check for Sending SVs
- RR3-108.1: Deletion of Number Pooling NPA-NXX-X Holder Information - Error Message for Pending-Like With Active POOL SVs and Pending-Like Port-To-Original SVs
- RR3-108.2: Deletion of Number Pooling NPA-NXX-X Holder Information -Pending-Like With Active POOL SVs and Pending-Like Port-To-Original SVs Report Selection of Output Destinations
- RR3-108.3: Deletion of Number Pooling NPA-NXX-X Holder Information -Pending-Like With Active POOL SVs and Pending-Like Port-To-Original SVs Report Output Destinations for Multiple Destinations
- RR3-109: Deletion of Number Pooling NPA-NXX-X Holder Information - Output Destination for Pending-Like and Active POOL SVs and Pending-Like Port-To-Original SVs
- RR3-110: Deletion of Number Pool NPA-NXX-X Holder Information - Block and Subscription Version Data Dependency
- RR3-111: Deletion of Number Pool NPA-NXX-X Holder Information - NPA-NXX-X Dependency
- RR3-112: Deletion of Number Pool NPA-NXX-X Holder Information - NPA-NXX-X With an Associated Block Create Scheduled Event

- ☒ (no answer)
- ☐ Yes
- ☐ No

3.12.7* QUESTION:

TRD FRS Section 3: Sub Section 3.12.7: NPA-NXX-X Holder, First Port Notification

The following requirements address First Port Notification of Number Pooling NPA-NXX-X holder information.

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Does the Respondent's proposal fully comply with the requirement below in time to meet the published implementation date?

RR3-228: Number Pool NPA-NXX-X Holder information Notification of First Port

- ☒ (no answer)
- ☐ Yes
- ☐ No

3.12.8* QUESTION:

TRD FRS Section 3: Sub Section 3.12.8: NPA-NXX-X Holder, Query

The following requirements address querying of Number Pooling NPA-NXX-X holder information.

Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?

RR3-113: Query of Number Pool NPA-NXX-X Holder Information - NPAC Personnel and Service Provider Personnel
RR3-114: Query of Number Pool NPA-NXX-X Holder Information - Return of Queried Data
RR3-115: Query of Number Pool NPA-NXX-X Holder Information - Return of Queried Data to NPAC Personnel Only
RR3-747: Query of NPA-NXX-X Holder Information for Pseudo-LRN - Service Provider Personnel - SOA Interface
RR3-748: Query of NPA-NXX-X Holder Information for Pseudo-LRN - Service Provider Personnel - LSMS Interface
RR3-749: Query NPA-NXX-X Holder Information for Pseudo-LRN - Service Provider Personnel - LTI

- ☒ (no answer)
- ☐ Yes
- ☐ No

3.13 STATEMENT:

TRD FRS Section 3: Sub Section 3.13: Block Information

The FRS Section 3.13 requirements define how the NPAC/SMS provides a mechanism to create, activate, modify, delete, query and validate pooled block records.

3.13.1 STATEMENT:

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TRD FRS Section 3: Sub Section 3.13.1: Version Status

This section includes a Number Pool Block Version Status Interaction diagram and descriptions that are described in further detail in the FRS document Section 3.13.1.

3.13.2* QUESTION:

TRD FRS Section 3: Sub Section 3.13.2: Block Holder, General

The following requirements address general Number Pool Block holder information.

Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?

- RR3-119: Number Pool Block Holder Information - NPAC Personnel OpGUI
- RR3-120: Number Pool Block Holder Information - NPAC Customer EDR Indicator Download of Block Object
- RR3-121: Number Pool Block Holder Information - NPAC Customer EDR Indicator Download of SVs
- RR3-122: Number Pool Block Holder Information - NPAC Customer EDR Indicator For Requests But Not Retries
- RR3-123: Number Pool Block Holder Information - Data Integrity for Block and Pooled Subscription Versions
- RR3-124: Number Pool Block Holder Information - Service Provider Validation
- RR3-125: Number Pool Block Holder Information - SPID Validation
- RR3-126: Number Pool Block Holder Information - NPA-NXX-X Data Validation
- RR3-127: Number Pool Block Holder Information - NPA-NXX-X Effective Date
- RR3-128: Number Pool Block Holder Information - LRN Validation
- RR3-334: Validation of LATA ID for Number Pool Block Creates
- RR3-335: Validation of LATA ID for Number Pool Block Modifies
- RR3-129: Number Pool Block Holder Information - Duplicate Block Validation
- RR3-130: Number Pool Block Holder Information - SOA Origination Values
- RR3-750: Number Pool Block Holder Information - Service Provider Tunable Value of TRUE for Pseudo-LRN Request
- RR3-751: Number Pool Block Holder Information - Service Provider Validation for Pseudo-LRN Request of NPA-NXX Ownership
- RR3-752: Number Pool Block Holder Information - Type Validation for Pseudo-LRN and Active-LRN Request
- RR3-753: Number Pooling Block Holder Information - Broadcast of Block Data to EDR Local SMS for Pseudo-LRN
- RR3-754: Number Pooling Block Holder Information - Broadcast of Subscription Version Data to non-EDR Local SMS for Pseudo-LRN
- RR3-131: Number Pool Block Holder Information - Validation Error
- RR3-132: Number Pooling Block Holder Information - Update Notification
- RR3-133: Number Pooling Block Holder Information - Update Notification Suppression
- RR3-134: Number Pooling Block Holder Information - Failed SP List Update for Block for EDR Local SMS
- RR3-135: Number Pooling Block Holder Information - Failed SP List Update for Subscription Versions for non-EDR Local SMS
- RR3-136: Number Pooling Block Holder Information - Failed SP List Sent to Block Holder
- RR3-137.1: Number Pooling Block Holder Information - Synchronization of Block Status and Subscription Version Status
- RR3-137.2: Number Pooling Block Holder Information - Synchronization of Block Status and Subscription Version Status for Block Creation
- RR3-137.3: Number Pooling Block Holder Information - Synchronization of Block Status and Subscription Version Status for Block Modification
- RR3-137.4: Number Pooling Block Holder Information - Synchronization of Block Status and Subscription Version Status for Block Deletion
- RR3-138.1: Number Pooling Block Holder Information - Synchronization of Block Failed SP List and Subscription Version

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Failed SP List

RR3-138.2: Number Pooling Block Holder Information - Synchronization of Block Failed SP List and Subscription Version
Failed SP List for Block Creation, Modification, or Deletion

RR3-139: Number Pooling Block Holder Information - Synchronization of Block Failed SP List and Subscription Version
Failed SP List for the last failed Subscription Version in the 1K Block

RR3-140: Number Pooling Block Holder Information - Synchronization of Block Failed SP List and Subscription Version
Failed SP List for the Block

RR3-141.1: Number Pooling Block Holder Information - Unique Error Message for Partial Failure or Failed Status Update
to a Block for Block Activation Requests Initiated by NPAC Personnel

RR3-141.3: Number Pooling Block Holder Information - Unique Error Message for Active Status With a Failed SP List
Update to a Block

RR3-141.4: Number Pooling Block Holder Information - Unique Error Message for Old Status With a Failed SP List Update
to a Block

RR3-142.1: Number Pooling Block Holder Information - Block Broadcast Monitoring Mechanism

RR3-142.2: Number Pooling Block Holder Information - Block Broadcast Monitoring Mechanism Completion

RR3-143: Number Pool Block Holder Information - Filters for Blocks



(no answer)



Yes



No

3.13.3* QUESTION:

TRD FRS Section 3: Sub Section 3.13.3: Block Holder, Addition

The following requirements address addition of Number Pool Block holder information.

Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?

RR3-144: Addition of Number Pooling Block Holder Information

RR3-145: Addition of Number Pool Block Holder Information - Rejected from LSMS

RR3-146: Addition of Number Pooling Block Holder Information - Required Data

RR3-147: Addition of Number Pooling Block Holder Information - Check for pending-like SVs for NPAC Personnel

RR3-148: Addition of Number Pooling Block Holder Information - Error Message to SOA for pending-like SVs

RR3-149: Addition of Number Pooling Block Holder Information - Field-level Data Validation

RR3-698: Addition of Number Pooling Block Holder Information -DPC-SSN Field-level Data Validation

RR3-699: Addition of Number Pooling Block Holder Information - Validation of DPC-SSNs for Number Pool Block Creates

RR3-150: Addition of Number Pooling Block Holder Information - Broadcast of Block Data

RR3-151: Addition of Number Pooling Block Holder Information - Activation Broadcast Complete Timestamp Update

RR3-152: Addition of Number Pooling Block Holder Information - Status Update

RR3-153: Addition of Number Pooling Block Holder Information - Failed SP List Update

RR3-496: Activate Number Pool Block - Send Number Pool Block SV Type Data to Local SMSs

RR3-497: Activate Number Pool Block - Send Alternative SPID to Local SMSs

RR3-543: Activate Number Pool Block - Send Last Alternative SPID to Local SMSs

RR3-544: Activate Number Pool Block - Send Alt-End User Location Value to Local SMSs

RR3-545: Activate Number Pool Block - Send Alt-End User Location Type to Local SMSs

RR3-546: Activate Number Pool Block - Send Alt-Billing ID to Local SMSs

RR3-547: Activate Number Pool Block - Send Voice URI to Local SMSs

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RR3-548: Activate Number Pool Block - Send MMS URI to Local SMSs
 RR3-549: Activate Number Pool Block - Send SMS URI to Local SMSs
 RR3-755: Activate Number Pool Block - Send Notification of Activation of Pseudo-LRN Record

- ☒ (no answer)
☐ Yes
☐ No

3.13.4* QUESTION:

TRD FRS Section 3: Sub Section 3.13.4: Block Holder, Modification

The following requirements address modification of Number Pool Block holder information.

Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?

RR3-154: Block's SOA Origination Indicator - NPAC Personnel OpGUI
 RR3-155: Block's SOA Origination Indicator - Suppress Broadcast
 RR3-156: Block's SOA Origination Indicator - Suppress Creation When False
 RR3-157: Modification of Number Pooling Block Holder Information - Routing Data
 RR3-158: Modification of Number Pool Block Holder Information - Rejected from LSMS
 RR3-159: Modification of Number Pooling Block Holder Information - SPID Validation
 RR3-160: Modification of Number Pooling Block Holder Information - Selection Criteria
 RR3-161: Modification of Number Pooling Block Holder Information - Current status and Failed SP List
 RR3-700: Modify Number Pool Block - DPC-SSN Field-level Data Validation
 RR3-701: Modify Number Pool Block - Validation of DPC-SSNs for Number Pool Block Modifies
 RR3-756: Number Pool Block Holder Information - Service Provider Tunable Value of TRUE for Pseudo-LRN Request
 RR3-162: Modification of Number Pooling Block Holder Information - Sending Status Update
 RR3-163: Modification of Number Pooling Block Holder Information - Broadcast of Block Data
 RR3-164: Modification of Number Pooling Block Holder Information - Modify Broadcast Complete Timestamp Update
 RR3-165: Modification of Number Pooling Block Holder Information -Status Update
 RR3-166: Modification of Number Pooling Block Holder Information - Failed SP List Update
 RR3-757: Modify Number Pool Block - Send Notification of Modification of Pseudo-LRN Record

- ☒ (no answer)
☐ Yes
☐ No

3.13.5* QUESTION:

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TRD FRS Section 3: Sub Section 3.13.5: Block Holder, Deletion

The following requirements address deletion of Number Pool Block holder information.

Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?

- RR3-169: Deletion of Number Pool Block Holder Information - NPAC
- RR3-170: Deletion of Number Pool Block Holder Information - SOA
- RR3-171: Deletion of Number Pool Block Holder Information - Rejected from LSMS
- RR3-172: Deletion of Number Pool Block Holder Information - LTI
- RR3-173: Deletion of Number Pooling NPA-NXX-X Holder Information - Sending Status Update to Block
- RR3-174: Deletion of Number Pool NPA-NXX-X Holder Information - Broadcast of Block Data
- RR3-175: Deletion of Number Pooling Block Holder Information - Disconnect Complete Timestamp Update
- RR3-176: Deletion of Number Pooling NPA-NXX-X Holder Information - Status Update to Block
- RR3-177: Deletion of Number Pooling NPA-NXX-X Holder Information - Failed SP List Update
- RR3-758: Deletion of Number Pool Block Holder Information - Send Notification of Disconnect of Pseudo-LRN Record

☒ (no answer)

☐ Yes

☐ No

3.13.6* QUESTION:

TRD FRS Section 3: Sub Section 3.13.6: Block Holder, Query

The following requirements address querying of Number Pool Block holder information.

Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?

- RR3-180: Query of Number Pool Block Holder Information - NPAC Personnel
- RR3-181: Query of Number Pool Block Holder Information - Service Provider Personnel
- RR3-182: Query of Number Pool Filtered Block Holder Information - Query Block
- RR3-759: Query of Number Pool Block Holder Information for Pseudo-LRN - Service Provider Personnel - SOA Interface
- RR3-760: Query of Number Pool Block Holder Information for Pseudo-LRN - Service Provider Personnel - LSMS Interface
- RR3-761: Query of Number Pool Block Holder Information for Pseudo-LRN - Service Provider Personnel - LTI

☒ (no answer)

☐ Yes

☐ No

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3.13.7* QUESTION:

TRD FRS Section 3: Sub Section 3.13.7: Block Holder, Default Routing Restoration

The following requirements address default routing restoration information in the Number Pool Block holder information.

Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?

RR3-183: Number Pool Block Holder Information Use of Number Pool Default Routing Information – Existing Block

RR3-184: Number Pool Block Holder Information Use of Number Pool : Notification of TN Re-assignment – During De-Pooling

- ☒ (no answer)
- ☐ Yes
- ☐ No

3.13.8* QUESTION:

TRD FRS Section 3: Sub Section 3.13.8: Block Holder, Re-Send

The following requirements address re-sending of Number Pool Block holder information.

Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?

RR3-185: Re-Send of Number Pool Block Holder Information - Filters for Blocks

RR3-186.1: Re-Send of Number Pooling Block Holder Information - NPAC Personnel OpGUI Single Block

RR3-186.2: Re-Send of Number Pooling Block Holder Information - NPAC Personnel OpGUI One or All Service Providers

RR3-187: Re-Send of Number Pooling Block Holder Information - Use of EDR Indicator for Re-Send data

RR3-188: Re-Send of Number Pooling Block Holder Information - Re-Send to EDR Local SMS

RR3-189: Re-Send of Number Pooling Block Holder Information - Re-Send to non-EDR Local SMS

RR3-190: Re-Send of Number Pooling Block Holder Information - Failed Block Status Set to Sending

RR3-191: Re-Send of Number Pooling Block Holder Information - Partial Failure Block Status Set to Sending

RR3-192: Re-Send of Number Pooling Block Holder Information - Sending Status Update to Active Block

RR3-193: Re-Send of Number Pooling Block Holder Information - Sending Status Update to Old Block

RR3-194: Re-Send of Number Pool Block Holder Information - Broadcast of Block Data

RR3-195: Re-Send of Number Pooling Block Holder Information - Update to Failed SP List

RR3-196: Re-Send of Number Pooling Block Holder Information -Status Update to Block after Re-Send

RR3-197: Re-Send of Number Pooling Block Holder Information - Failed SP List Update

RR3-472: Number Pool Block Failed SP List - Exclusion of a Service Provider from Resend

RR3-473: Number Pool Block Failed SP List - Logging of an Excluded Service Provider

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- ☒ (no answer)
- ☐ Yes
- ☐ No

3.14* QUESTION:

TRD FRS Section 3: Sub Section 3.14: Linked Action Replies

The FRS Section 3.14 requirements define tunable parameters that enable Linked Action Replies to be sent to Service Provider systems that support this functionality, during recovery. The actual Linked Reply functionality is discussed specifically within the Recovery section.

Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?

- RR3-336: NPAC Customer SOA Linked Replies Indicator
- RR3-337: NPAC Customer SOA Linked Replies Indicator - Default
- RR3-338: NPAC Customer SOA Linked Replies Indicator - Modification
- RR3-339: NPAC Customer Local SMS Linked Replies Indicator
- RR3-340: NPAC Customer Local SMS Linked Replies Indicator - Default
- RR3-341: NPAC Customer Local SMS Linked Replies Indicator - Modification
- RR3-342: Service Provider and Network Data Linked Replies Blocking Factor - Tunable Parameter
- RR3-343: Service Provider and Network Data Linked Replies Blocking Factor - Tunable Parameter Default
- RR3-344: Service Provider and Network Data Linked Replies Blocking Factor - Tunable Parameter Modification
- RR3-345: Subscription Data Linked Replies Blocking Factor - Tunable Parameter
- RR3-346: Subscription Data Linked Replies Blocking Factor - Tunable Parameter Default
- RR3-347: Subscription Data Linked Replies Blocking Factor - Tunable Parameter Modification
- RR3-348: Notification Data Linked Replies Blocking Factor - Tunable Parameter
- RR3-349: Notification Data Linked Replies Blocking Factor - Tunable Parameter Default
- RR3-350: Notification Data Linked Replies Blocking Factor - Tunable Parameter Modification
- RR3-430: Number Pool Block Data Linked Replies Blocking Factor - Tunable Parameter
- RR3-431: Number Pool Block Data Linked Replies Blocking Factor - Tunable Parameter Default
- RR3-432: Number Pool Block Data Linked Replies Blocking Factor - Tunable Parameter Modification
- RR3-351: Service Provider and Network Data Maximum Linked Recovered Objects - Tunable Parameter
- RR3-352: Service Provider and Network Data Maximum Linked Recovered Objects - Tunable Parameter Default
- RR3-353: Service Provider and Network Data Maximum Linked Recovered Objects - Tunable Parameter Modification
- RR3-354: Subscription Data Maximum Linked Recovered Objects - Tunable Parameter
- RR3-355: Subscription Data Maximum Linked Recovered Objects - Tunable Parameter Default
- RR3-356: Subscription Data Maximum Linked Recovered Objects - Tunable Parameter Modification
- RR3-357: Notification Data Maximum Linked Recovered Notifications - Tunable Parameter
- RR3-358: Notification Data Maximum Linked Recovered Notifications - Tunable Parameter Default
- RR3-359: Notification Data Maximum Linked Recovered Notifications - Tunable Parameter Modification
- RR3-433: Number Pool Block Data Maximum Linked Recovered Objects - Tunable Parameter
- RR3-434: Number Pool Block Data Maximum Linked Recovered Objects - Tunable Parameter Default
- RR3-435: Number Pool Block Data Maximum Linked Recovered Objects - Tunable Parameter Modification

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- ☒ (no answer)
- ☐ Yes
- ☐ No

3.15 STATEMENT:

TRD FRS Section 3: Sub Section 3.15: GTT Validation Processing by the NPAC/SMS

The FRS Section 3.15 requirements describe how the NPAC/SMS performs a variety of GTT validation for Subscription Versions and Number Pool Blocks in an effort to support SS7 signaling guidelines for Local Number Portability. Some GTT validation occurs based on regional tunables that reflect inter-Service Provider service level agreements, while other validations occur globally regardless of any tunable setting.

3.15.1* QUESTION:

TRD FRS Section 3: Sub Section 3.15.1: Sub System Number (SSN) Edit Flag Indicator

The following requirements address Sub System Number Edit flag indicators related to DPC/SSN edits.

Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?

- RR3-360: DPC/SSN Edits - CLASS SSN Edit Flag Indicator
- RR3-361: DPC/SSN Edits - LIDB SSN Edit Flag Indicator
- RR3-362: DPC/SSN Edits - CNAM SSN Edit Flag Indicator
- RR3-363: DPC/SSN Edits - ISVM SSN Edit Flag Indicator
- RR3-364: DPC/SSN Edits - WSMSC SSN Edit Flag Indicator
- RR3-365: DPC/SSN Edits - CLASS SSN Edit Flag Indicator - OpGUI Modification
- RR3-366: DPC/SSN Edits - LIDB SSN Edit Flag Indicator - OpGUI Modification
- RR3-367: DPC/SSN Edits - CNAM SSN Edit Flag Indicator - OpGUI Modification
- RR3-368: DPC/SSN Edits - ISVM SSN Edit Flag Indicator - OpGUI Modification
- RR3-369: DPC/SSN Edits - WSMSC SSN Edit Flag Indicator - OpGUI Modification
- RR3-370: DPC/SSN Edits - CLASS SSN Edit Flag Indicator Default
- RR3-371: DPC/SSN Edits - LIDB SSN Edit Flag Indicator Default
- RR3-372: DPC/SSN Edits - CNAM SSN Edit Flag Indicator Default
- RR3-373: DPC/SSN Edits - ISVM SSN Edit Flag Indicator Default
- RR3-374: DPC/SSN Edits - WSMSC SSN Edit Flag Indicator Default
- RR3-375: DPC/SSN Edits - CLASS SSN Rejection for Non-Zero Value
- RR3-376: DPC/SSN Edits - LIDB SSN Rejection for Non-Zero Value
- RR3-377: DPC/SSN Edits - CNAM SSN Rejection for Non-Zero Value
- RR3-378: DPC/SSN Edits - ISVM SSN Rejection for Non-Zero Value
- RR3-379: DPC/SSN Edits - WSMSC SSN Rejection for Non-Zero Value

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- ☒ (no answer)
- ☐ Yes
- ☐ No

3.15.2* QUESTION:

TRD FRS Section 3: Sub Section 3.15.2: Global GTT Validations

The following requirements address global GTT validations.

Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?

- RR3-380: Subscription Version - Verify CLASS SSN when CLASS DPC is populated
- RR3-381: Subscription Version - Verify LIDB SSN when LIDB DPC is populated
- RR3-382: Subscription Version - Verify CNAM SSN when CNAM DPC is populated
- RR3-383: Subscription Version - Verify ISVM SSN when ISVM DPC is populated
- RR3-384: Subscription Version - Verify WSMSC SSN when WSMSC DPC is populated
- RR3-385: Subscription Version - Verify CLASS DPC when CLASS SSN is populated
- RR3-386: Subscription Version - Verify LIDB DPC when LIDB SSN is populated
- RR3-387: Subscription Version - Verify CNAM DPC when CNAM SSN is populated
- RR3-388: Subscription Version - Verify ISVM DPC when ISVM SSN is populated
- RR3-389: Subscription Version - Verify WSMSC DPC when WSMSC SSN is populated
- RR3-390: Number Pool Block - Verify CLASS SSN when CLASS DPC is populated
- RR3-391: Number Pool Block - Verify LIDB SSN when LIDB DPC is populated
- RR3-392: Number Pool Block - Verify CNAM SSN when CNAM DPC is populated
- RR3-393: Number Pool Block - Verify ISVM SSN when ISVM DPC is populated
- RR3-394: Number Pool Block - Verify WSMSC SSN when WSMSC DPC is populated
- RR3-395: Number Pool Block - Verify CLASS DPC when CLASS SSN is populated
- RR3-396: Number Pool Block - Verify LIDB DPC when LIDB SSN is populated
- RR3-397: Number Pool Block - Verify CNAM DPC when CNAM SSN is populated
- RR3-398: Number Pool Block - Verify ISVM DPC when ISVM SSN is populated
- RR3-399: Number Pool Block - Verify WSMSC DPC when WSMSC SSN is populated
- RR3-400: DPC/SSN Edits - CLASS validation failure
- RR3-401: DPC/SSN Edits - LIDB validation failure
- RR3-402: DPC/SSN Edits - CNAM validation failure
- RR3-403: DPC/SSN Edits - ISVM validation failure
- RR3-404: DPC/SSN Edits - WSMSC validation failure
- RR3-405: DPC/SSN Edits - CLASS DPC and SSN Required Data for Modification
- RR3-406: DPC/SSN Edits - LIDB DPC and SSN Required Data for Modification
- RR3-407: DPC/SSN Edits - CNAM DPC and SSN Required Data for Modification
- RR3-408: DPC/SSN Edits - ISVM DPC and SSN Required Data for Modification
- RR3-409: DPC/SSN Edits - WSMSC DPC and SSN Required Data for Modification
- RR3-410: DPC/SSN Edits - CLASS DPC and SSN Required Data for Mass Update
- RR3-411: DPC/SSN Edits - LIDB DPC and SSN Required Data for Mass Update
- RR3-412: DPC/SSN Edits - CNAM DPC and SSN Required Data for Mass Update
- RR3-413: DPC/SSN Edits - ISVM DPC and SSN Required Data for Mass Update
- RR3-414: DPC/SSN Edits - WSMSC DPC and SSN Required Data for Mass Update
- RR3-415: Subscription Version - Verify All Routing Data When Modifying Non-GTT Data

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RR3-416: Subscription Version - Verify All Routing Data When Modifying CLASS Data
 RR3-417: Subscription Version - Verify All Routing Data When Modifying LIDB Data
 RR3-418: Subscription Version - Verify All Routing Data When Modifying CNAM Data
 RR3-419: Subscription Version - Verify All Routing Data When Modifying ISVM Data
 RR3-420: Subscription Version - Verify All Routing Data When Modifying WSMSC Data
 RR3-421: Number Pool Block - Verify All Routing Data When Modifying Non-GTT Data
 RR3-422: Number Pool Block - Verify All Routing Data When Modifying CLASS Data
 RR3-423: Number Pool Block - Verify All Routing Data When Modifying LIDB Data
 RR3-424: Number Pool Block - Verify All Routing Data When Modifying CNAM Data
 RR3-425: Number Pool Block - Verify All Routing Data When Modifying ISVM Data
 RR3-426: Number Pool Block - Verify All Routing Data When Modifying WSMSC Data
 RR3-427: Subscription Version - Verify All Routing Data When Activating a Subscription Version
 RR3-428: Number Pool Block - Verify All Routing Data When Activating a Number Pool Block
 RR3-429: DPC/SSN Edits - Errors on DPC and SSN Required Data for Mass Update

- ☒ (no answer)
☐ Yes
☐ No

3.16* QUESTION:

TRD FRS Section 3: Sub Section 3.16: Low-Tech Interface DPC-SSN Validation Processing by the NPAC/SMS

These FRS Section 3.16 requirements describe how the NPAC/SMS performs DPC-SSN validation for Subscription Versions and Number Pool Blocks that are submitted via the Low-Tech Interface or NPAC Administrative Interface. This validation occurs based on regional tunables. These edits ensure that values specified are valid according to the Service Provider DPC source data.

Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?

RR3-702: Regional LTI DPC-SSN Validation Indicator - Tunable Parameter
 RR3-703: Regional LTI DPC-SSN Validation Indicator - Tunable Parameter Default
 RR3-704: Regional LTI DPC-SSN Validation Indicator - Tunable Parameter Modification
 RR3-705: DPC-SSN Entries Information Source for LTI or NPAC Personnel entries
 RR3-706: DPC-SSN Entries Information Maintenance
 RR3-707: DPC-SSN Entries Information - Multiple Entries

- ☒ (no answer)
☐ Yes
☐ No

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4. TRD FRS Section 4: SERVICE PROVIDER DATA ADMINISTRATION

4.1* QUESTION:

TRD FRS Section 4: Sub Section 4.1: Service Provider Data Administration and Management

Service Provider Data Administration functions allow NPAC personnel to receive and record data needed to identify authorized LNP Service Providers. The Service Provider data indicates the LNP Service Providers and includes location, contact name, security, routing, and network interface information.

Service Provider Administration supports functionality to manage Service Provider data. There can be only one instance of Service Provider data for a specific LNP Service Provider.

Does the Respondent's proposal fully comply with the requirement below in time to meet the published implementation date?

AR1-1: Service Provider ID

- ☒ (no answer)
- ☐ Yes
- ☐ No

4.1.1* QUESTION:

TRD FRS Section 4: Sub Section 4.1.1: User Functionality

Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?

R4-1: Create Service Providers
 R4-2: Modify Service Providers
 R4-3: Delete Service Providers
 R4-4: View of Service Provider Data
 R4-5.1: View List of Service Provider Subscriptions
 R4-5.2: Authorized Service Providers View Their Own Data
 RX4-2: Authorized Service Providers Modify Their Own Data
 RR4-4.1: Broadcast NPAC Customer Names

- ☒ (no answer)
- ☐ Yes
- ☐ No

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4.1.2 STATEMENT:

TRD FRS Section 4: Sub Section 4.1.2: System Functionality

This section describes NPAC/SMS functionality required to support the NPAC personnel requests described in the above section. The following specifies user requests and lists the NPAC/SMS functionality needed to support those requests.

4.1.2.1* QUESTION:

TRD FRS Section 4: Sub Section 4.1.2.1: Service Provider Data Creation

NPAC personnel can request that Service Provider data be created in the NPAC/SMS. The functionality described below enables a new instance of Service Provider data for a Service Provider to be created, provided that no other Service Provider data exists for the Service Provider.

Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?

- R4-6: New Service Provider ID
- R4-7.1: Examine for Duplicate Service Provider ID
- R4-7.2: Error notification of Duplicate Service Provider
- R4-8: Service Provider Data Elements
- R4-9: Service Provider data validation
- R4-10: Notification of successful add for new Service Provider
- R4-11: Failure notification of Service Provider creation
- RR4-9: Service Provider Type SOA Indicator
- RR4-10: Service Provider Type SOA Indicator Default
- RR4-11: Service Provider Type SOA Indicator Modification
- RR4-12: Service Provider Type LSMS Indicator
- RR4-13: Service Provider Type LSMS Indicator Default
- RR4-14: Service Provider Type LSMS Indicator Modification
- RR4-15: Service Provider Type Attribute Modification Restriction

- ☒ (no answer)
- ☐ Yes
- ☐ No

4.1.2.2* QUESTION:

TRD FRS Section 4: Sub Section 4.1.2.2: Service Provider Data Modification

NPAC personnel and the SOA to NPAC/SMS interface and the NPAC/SMS to Local SMS interface can request that Service Provider data be modified in the NPAC/SMS. The functionality described below enables the user to modify data for the Service Provider.

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Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?

- R4-13: Service Provider Key selection for modifying Service Provider data
- R4-14: Error notification of invalid Service Provider ID or Name during Modify
- R4-15.1: Modify restrictions on Service Provider data - Service Providers
- R4-15.2: Modify restrictions on Service Provider data - NPAC Operations Personnel
- R4-16: Re-validation of Service Provider data after Modify
- R4-17: Modify Validation Error Message

- ☒ (no answer)
- ☐ Yes
- ☐ No

4.1.2.3* QUESTION:

TRD FRS Section 4: Sub Section 4.1.2.3: Delete Service Provider Data

NPAC personnel can request that the Service Provider data be deleted. Deleted Service Provider data will be written to a history file. The functionality described below enables a user to delete data for the Service Provider.

Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?

- R4-20: Service Provider key for delete
- R4-21: Error Message for Delete key search
- R4-22.1: No Subscription Versions during Service Provider Delete
- R4-22.2: Subscription during Service Provider Delete
- R4-22.3: Service Provider subscription restrictions during Network Data Delete.

- ☒ (no answer)
- ☐ Yes
- ☐ No

4.1.3 STATEMENT:

TRD FRS Section 4: Sub Section 4.1.3: Service Provider Queries

The query functionality discussed in this section will give users the ability to view Service Provider and Subscription data. A user may not be able to modify a particular data item because they do not have the proper security permissions, therefore the data is made available via NPAC/SMS for read only purposes.

4.1.3.1* QUESTION:

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TRD FRS Section 4: Sub Section 4.1.3.1: User Functionality

Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?

R4-24.1: Display of Service Provider ID and related subscription data

R4-24.2: Display of LRN and related subscription data

R4-24.3: Display of NPA-NXX and related subscription data

- ☒ (no answer)
- ☐ Yes
- ☐ No

4.1.3.2* QUESTION:

TRD FRS Section 4: Sub Section 4.1.3.2: System Functionality

The following specifies NPAC/SMS functionality needed to support the user requests described above in TRD FRS Section 4: Sub Section 4.1.3.

Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?

R4-25: Service Provider as Key for queries

R4-26.1: Error message for unknown Service Provider during a query

R4-26.2: Results returned to Service Provider during a query

R4-27: Service Provider Query Types

R4-28: Service Provider Information Message during query

RR4-16: Service Provider Data Information Service Provider Query - Support for Service Provider Type Data

- ☒ (no answer)
- ☐ Yes
- ☐ No

4.1.4* QUESTION:

TRD FRS Section 4: Sub Section 4.1.4: Service Provider Accepted SPID List

Pseudo-LRN functionality allows a Service Provider to specify the list of SPID (including their own) that they wish to receive pseudo-LRN records in a download from the NPAC/SMS.

Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?

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RR4-17: Add SPID to Pseudo-LRN Accepted SPID List by NPAC Personnel on behalf of a Service Provider
 RR4-18: Delete SPID from Pseudo-LRN Accepted SPID List by NPAC Personnel on behalf of a Service Provider
 RR4-19: Query SPID from Pseudo-LRN Accepted SPID List by NPAC Personnel on behalf of a Service Provider

- ☒ (no answer)
☐ Yes
☐ No

4.2* QUESTION:

TRD FRS Section 4: Sub Section 4.2: Additional Requirements

Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?

RN4-1: Service Provider Network Data Addition/Deletion
 RR4-1: Removal of Service Provider with Respect to LRNs
 RR4-2: Removal of Service Provider with Respect to NPA-NXXs
 RR4-3.1: Removal of NPA-NXX - Subscription Version Check
 RR4-3.2: Removal of NPA-NXX - NPA-NXX-X Check
 RR4-4.2.1: Removal of LRN - Subscription Version Check
 RR4-4.2.2: Removal of LRN - Block Check
 RR4-5: Duplicate NPA-NXX Validation
 RR4-6: Duplicate NPA-NXX Validation - Error Processing
 RR4-7: Duplicate LRN Validation
 RR4-8: Duplicate LRN Validation - Error Processing

- ☒ (no answer)
☐ Yes
☐ No

5. TRD FRS Section 5 SUBSCRIPTION MANAGEMENT

5.1* QUESTION:

TRD FRS Section 5: Sub Section 5.1: Subscription Version Management

Subscription Management functions allow NPAC personnel and SOA to NPAC/SMS interface users to specify data needed for ported numbers. The subscription data indicates how local number portability should operate to meet subscribers' needs. These functions will be accessible to authorized service providers via an interface (i.e., the SOA to NPAC SMS

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interface) from their operations systems to the NPAC/SMS and will also be accessible to (and performed by) NPAC personnel.

Subscription Management supports functionality to manage multiple versions of subscription data. See Section 5.1.1, Subscription Version Management, for more details on the different states of a version.

Does the Respondent's proposal fully comply with these requirements below in time to meet the published implementation date?

RN5-1: Subscription Version Status - Only One Per Subscription

RN5-2: Subscription Version Status - Only One Active Version

RN5-3: Subscription Version Status - Multiple Old/Canceled

RR5-113: TN Range Notification Information - Service Provider TN Range Notification Indicator Sending of TN Range Notifications

RR5-114: TN Range Notification Information - Service Provider TN Range Notification Indicator Suppression of TN Range Notifications

AR5-3: Changing of TN Range Notification Indicator while Notifications are Queued

RR5-115: TN Range Notification Information - Single TN Range Notifications

RR5-116: TN Range Notification Information - Breakup of TN Range Notifications

RR5-173: TN Range Notification Information - Breakup of TN Range Notifications



(no answer)



Yes



No

5.1.1 STATEMENT:

TRD FRS Section 5: Sub Section 5.1.1: Subscription Version Management

Subscription Version management provides functionality to manage multiple time sensitive views of subscription data. This section addresses version management for LNP and the user and system functionality needed for subscription administration. In this context a version may be defined as time sensitive subscription data.

At any given time, a Subscription Version in the SMS can have one of several statuses (e.g., active, old) and may change status depending on results of different SMS processes (e.g., modification, activation). This section describes the different statuses that a version can have and the SMS processes that can change the status. This section also discusses functionality and data that is needed for Subscription Management.

5.1.1.1* QUESTION:

TRD FRS Section 5: Sub Section 5.1.1.1: Version Status

This section references Subscription Version Status Interaction Descriptions and Diagrams. (Figure 5-1 and Table 5-1)

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Does the Respondent's proposal fully comply with these requirements below in time to meet the published implementation date?

R5 1.1: Subscription Version Statuses
 R5-2.1: Old Subscription Retention - Tunable Parameter
 R5-2.2: Old Subscription Retention - Tunable Parameter Modification
 R5-2.3: Old Subscription Retention - Tunable Parameter Default
 R5-3.1: Cancel-Pending Subscription Retention - Tunable Parameter
 R5-3.2: Cancel-Pending Subscription Retention - Tunable Parameter Modification
 R5-3.3: Cancel-Pending Subscription Retention - Tunable Parameter Default
 R5-3.4: Cancel-Conflict Subscription Retention - Tunable Parameter
 R5-3.5: Cancel-Conflict Subscription Retention - Tunable Parameter Modification
 R5-3.6: Cancel-Conflict Subscription Retention - Tunable Parameter Default
 RR5-1.1: Pending Subscription Retention - Tunable Parameter
 RR5-1.2: Pending Subscription Retention - Tunable Parameter Modification
 RR5-1.3: Pending Subscription Retention - Tunable Parameter Default
 RR5-1.4: Pending Subscription Retention - Tunable Parameter Expiration
 R5-5: Subscription Versions Creation for TN Ranges
 R5-6: Subscription Administration Transaction Logging
 RR5-182: Create/Modify Subscription Version - Medium Timers - Timer Type
 RR5-183: Create/Modify Subscription Version - Medium Timers - Business Type

- ☒ (no answer)
☐ Yes
☐ No

5.1.2 STATEMENT:

TRD FRS Section 5: Sub Section 5.1.2: Subscription Administration Requirements

5.1.2.1* QUESTION:

TRD FRS Section 5: Sub Section: 5.1.2.1: User Functionality

Does the Respondent's proposal fully comply with these requirements below in time to meet the published implementation date?

R5-7: Creating a Subscription Version
 RR5-55: Create Pending Provider Port - NPAC Personnel or Service Provider After Block Activation
 R5 8.1: Modifying a Subscription Version
 R5-9: Activating a Subscription version
 R5-10.1: Setting a Subscription Version to Conflict
 R5-10.2: Subscription Version Conflict Status Rule
 R5-11: Disconnecting a Subscription Version
 R5-12: Canceling a Subscription Version

EXHIBIT A-3

R5-13: Querying a Subscription Version

RR5-197: Create Subscription Version - Validation of DPC-SSNs for Subscription Version Creates

- ☒ (no answer)
- ☐ Yes
- ☐ No

5.1.2.2 STATEMENT:

TRD FRS Section 5: Sub Section 5.1.2.2: System Functionality

This section describes NPAC/SMS functionality required to support NPAC personnel and SOA to NPAC/SMS interface user requests defined in the above section.

5.1.2.2.1* QUESTION:

TRD FRS Section 5: Sub Section 5.1.2.2.1: Subscription Version Creation

This section provides the requirements for the Subscription Version Create functionality, which is executed upon the user requesting to create a Subscription Version.

Does the Respondent's proposal fully comply with these requirements in time to meet the published implementation date?

RR5-3: Create Subscription Version - Notify NPA-NXX First Usage

RR5-53: Create Subscription Version - Notify NPA-NXX First Usage of a New NPA-NXX involved in an NPA Split

RR5-120: Validation of LATA ID for Subscription Version Creates

RR5-130: Create "Porting to Original" Subscription Version - New Service Provider ID and Code Holder Match

RR5-162: Addition of Subscription Version Due Date - Validation

- ☒ (no answer)
- ☐ Yes
- ☐ No

5.1.2.2.1.1* QUESTION:

TRD FRS Section 5: Sub Section 5.1.2.2.1.1: Subscription Version Creation - Inter-Service Provider Ports

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This section provides the Subscription Version Creation requirements for performing an Inter-Service Provider port of a TN. There are two types of Inter-Service Provider ports: A port of a TN to a new Service Provider from the Old, or a "porting to original" port. A "porting to original" port implies that all porting data will be removed from the Local SMSs and the TN will revert to the default routing, which ultimately results in the TN returning to the original "donor" Service Provider.

Does the Respondent's proposal fully comply with these requirements in time to meet the published implementation date?

R5-14: Create Subscription Version - Old Service Provider Input Data
 R5-15.1: Create "Inter-Service Provider Port" Subscription Version - New Service Provider Input Data
 R5-15.2: Create "Inter-Service Provider porting to original" Subscription Version - New Service Provider Input Data
 R5-16: Create Inter-Service Provider (non-PTO) Subscription Version - New Service Provider Optional input data
 RR5-179: Create Inter-Service Provider PTO Subscription Version - New Service Provider Data Attributes - Rejected
 R5-18.1: Create Subscription Version - Field-level Data Validation
 R5-18.2: Create Subscription Version - Due Date Consistency Validation
 R5-18.4: Create Subscription Version - Ported TN NPA-NXX Validation
 RR5-119: Subscription Version - Due Date Validation for Second/Concurrence Create Message for a Subscription Version Inter-Service Provider Port
 R5-18.5: Create Subscription Version - Service Provider ID Validation
 R5-18.6: Create Subscription Version - LRN Validation
 R5-18.7: Create Subscription Version - Originating Service Provider Validation
 R5-18.8: Create Subscription Version - Duplicate Authorization Validation
 R5-18.9: Create Subscription Version - Service Provider ID Validation
 R5-18.10: Create Subscription Version - Status Change Cause Code Validation
 R5 19.1: Create Subscription Version - Old Service Provider ID Validation
 R5-19.2: Create Subscription Version - Old Service Provider ID Validation - No Active Subscription Version
 R5-19.3: Create Subscription Version - Timer Type Selection
 R5-19.4: Create Subscription Version - Timer Type Selection - Mismatch
 R5-19.5: Create Subscription Version - Business Hours and Days Selection
 R5-19.6: Create Subscription Version - Business Hours and Days Selection - Mismatch
 R5-20.1: Create Subscription Version - Validation Failure Notification
 R5-20.2: Create Subscription Version - Validation Failure - No Update
 R5-20.3: Create Subscription Version - Validation Failure - No Create
 R5-20.4: Create Subscription Version - Validation Success - Update Existing
 R5-20.5: Create Subscription Version - Validation Success - Create New
 R5-21.1: Initial Concurrence Window - Tunable Parameter
 R5-21.2: Initial Concurrence Window - Tunable Parameter Modification
 R5-21.3: Long Initial Concurrence Window - Tunable Parameter Default
 R5-21.4: Short Initial Concurrence Window - Tunable Parameter Default
 R5-21.6: Create Subscription Version - Set to Pending
 R5-21.7: Create Subscription Version - Notify User Success
 RR5-2.1: Create Subscription Version - Set to Conflict
 RR5-2.2: Create Subscription Version - Set Conflict Timestamp
 RR5-2.3: Create Subscription Version - Conflict Notification
 RR5-2.4: Cause Code in Conflict Notification - Creation
 R5-22: Create Subscription Version - Initial Concurrence Window Tunable Parameter Expiration
 R5-23.1: Final Concurrence Window - Tunable Parameter
 R5-23.2: Final Concurrence Window Tunable - Tunable Parameter Modification
 R5-23.3: Long Final Concurrence Window Tunable - Tunable Parameter Default
 RR5-52: Short Final Concurrence Window Tunable - Tunable Parameter Default
 RR5-117: New Service Provider Final Create Window Expiration Notification
 RR5-118: New Service Provider Final Create Window Expiration Notification - Sending of Cause Code
 RR5-56: Create Inter-Service Provider Regular Port and Port-to-Original Port - NPAC and SOA After NPA-NXX-X Creation

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RR5-57: Create Intra- or Inter-Service Provider Port-to-Original Subscription Version - After Block Activation
 RR5-198: Create "Inter-Service Provider Port" Subscription Version - DPC-SSN Field-level Data Validation
 R5 23.5: Activation without Old Service Provider Authorization
 R5-23.6: Activation without Old Service Provider Authorization - Time restriction
 RR5-23.3: Old Service Provider Final Concurrence Timer Expiration Notification - Old SP
 RR5-184: Old Service Provider Final Concurrence Timer Expiration Notification - New SP

☒ (no answer)

☐ Yes

☐ No

5.1.2.2.1.2* QUESTION:

TRD FRS Section 5: Sub Section 5.1.2.2.1.2: Subscription Version Creation - Intra-Service Provider Ports

This section provides the Subscription Version Creation requirements for performing an Intra-Service Provider port of a TN. An Intra-Service Provider port of a TN is when a TN is ported to a new location within the current Service Provider network (i.e., the routing data is modified, but the Service Provider remains the same). A "port to original" for an Intra-Service Provider port should be handled by submission of an Intra-Service Provider "port to original" subscription version request to the NPAC/SMS.

Does the Respondent's proposal fully comply with these requirements in time to meet the published implementation date?

RR5-4: Create "Intra-Service Provider Port" Subscription Version - Current Service Provider Input Data
 RR5-122: Create "Intra-Service Provider porting to original Port" Subscription Version - New Service Provider Input Data
 RR5-5: Create "Intra-Service Provider Port" (non-PTO) Subscription Version - Current Service Provider Optional Input Data
 RR5-180: Create "Intra-Service Provider Port" (PTO) Subscription Version - Current Service Provider Data Attributes - Rejected
 RR5-6.1: Create "Intra-Service Provider Port" Subscription Version - Field-level Data Validation
 RR5-6.2: Create "Intra-Service Provider Port" Subscription Version - New and Old Service Provider ID Match
 RR5-6.4: Create "Intra-Service Provider Port" Subscription Version - Ported TN NPA-NXX Validation
 RR5-6.5: Create "Intra-Service Provider Port" Subscription Version - LRN Validation
 RR5-6.6: Create "Intra-Service Provider Port" Subscription Version - Duplicate Authorization Validation
 RR5-6.7: Create "Intra-Service Provider Port" Subscription Version - Old Service Provider ID Validation
 RR5-6.8: Create "Intra-Service Provider Port" Subscription Version - No Active Version
 RR5-6.9: Create "Intra-Service Provider Port" Subscription Version - Old Service Provider ID Validation - No Active Subscription Version
 RR5-7.1: Create "Intra-Service Provider Port" Subscription Version - Validation Failure Notification
 RR5-7.2: Create "Intra-Service Provider Port" Subscription version - Validation Failure - No Create
 RR5-8: Create "Intra-Service Provider Port" Subscription version - Set to Pending
 RR5-9: Create "Intra-Service Provider Port" Subscription version - Notify User of Creation
 RR5-58: Create Intra-Service Provider Port - NPAC Personnel After NPA-NXX-X Creation
 RR5-59: Create Intra-Service Provider Port - SOA After NPA-NXX-X Creation

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RR5-121: Create Intra-Service Provider Port-to-Original Port - NPAC and SOA After NPA-NXX-X Creation
 RR5-218: No Create for Non-Active TN - NPAC Personnel or Service Provider while Block contains a Failed SP List
 RR5-185: Create Intra-Service Provider Port - Medium Timers
 RR5-199: Create "Intra-Service Provider Port" Subscription Version - DPC-SSN Field-level Data Validation
 RR5-203: Create "Intra-Service Provider Port" Subscription Version - Service Provider Tunable Value of TRUE for Pseudo-LRN Request
 RR5-204: Create "Intra-Service Provider Port" Subscription Version - Rejection of Pseudo-LRN Request for Active Inter- or Intra-Subscription Version with Active LRN
 RR5-205: Create "Intra-Service Provider Port" Subscription Version - Rejection of Pseudo-LRN Request for NPA-NXX-X
 RR5-206: Create "Intra-Service Provider Port" Subscription Version - Notify User of Creation of Pseudo-LRN Record

- ☒ (no answer)
☐ Yes
☐ No

5.1.2.2.2* QUESTION:

TRD FRS Section 5: Sub Section 5.1.2.2.2: Subscription Version Modification

This section provides the requirements for the Subscription Version Modification functionality, which is executed upon the user requesting modification of the Subscription Version.

Does the Respondent's proposal fully comply with these requirements in time to meet the published implementation date?

RR5-123: Validation of LATA ID for Subscription Version Modifies
 R5-25: Modify Subscription Version - Invalid Version Status Notification
 RR5-200: Modify "Inter-Service Provider Port" Subscription Version - DPC-SSN Field-level Data Validation
 RR5-201: Modify "Intra-Service Provider Port" Subscription Version - DPC-SSN Field-level Data Validation
 RR5-202: Modify Subscription Version - Validation of DPC-SSNs for Subscription Version Creates
 RR5-207: Modify "Intra-Service Provider Port" Subscription Version - Service Provider Tunable Value of TRUE for Pseudo-LRN Request

- ☒ (no answer)
☐ Yes
☐ No

5.1.2.2.2.1* QUESTION:

TRD FRS Section 5: Sub Section 5.1.2.2.2.1: Modification of a Pending or Conflict Subscription Version

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Does the Respondent's proposal fully comply with these requirements in time to meet the published implementation date?

R5-26: Modify Subscription Version - Version Identification
 RR5-186: Modify Subscription Version - New Service Provider - Medium Timers
 R5-27.1: Modify Subscription Version - New Service Provider Data Values
 R5-27.2: Modify "porting to original" Subscription Version - New Service Provider Data Values
 RR5-187: Modify Subscription Version - Old Service Provider - Medium Timers
 R5-27.3: Modify Subscription Version - Old Service Provider Data Values
 R5-27.4: Old Service Provider authorization Flag Modification to False
 R5-28: Modify (non-PTO) Subscription Version - New Service Provider Optional input data
 RR5-181: Modify (PTO) Subscription Version - New Service Provider Optional input data
 R5-29.1: Modify Subscription Version - Field-level Data Validation
 RR5-163: Modification of Subscription Version Due Date - Validation
 R5-29.3: Modify Subscription Version - LRN Validation
 R5-29.4: Modify Subscription Version - Originating Service Provider Validation
 R5-29.5: Modify Subscription Version - Status Change Cause Code Validation
 RR5-188: Modify Subscription Version - Medium Timers - Timer Type Change
 RR5-189: Modify Subscription Version - Medium Timers - Restart T1 Timer
 R5 30.1: Modify Subscription Version - Validation Failure Notification
 R5-30.2: Modify Subscription Version - Validation Error Processing
 R5-31.3: Modify Subscription Version - Successful Modification Notification
 RR5-208: Modify "Intra-Service Provider Port" Subscription Version - Send Notification of Modification of Active Pseudo-LRN Record
 RR5-10.1: Modify Subscription Version - Set Conflict Timestamp
 RR5-10.2: Modify Subscription Version - Conflict Notification
 RR5-10.3: Modify Subscription Version - Cause Code in Notification

- ☒ (no answer)
☐ Yes
☐ No

5.1.2.2.2.* QUESTION:

TRD FRS Section 5: Sub Section 5.1.2.2.2: Modification of an Active/Disconnect Pending Subscription Version

Does the Respondent's proposal fully comply with these requirements in time to meet the published implementation date?

RR5-136: Modify Active Subscription Version with a Failed-SP List - Invalid Request Notification
 RR5-11: Modify Active/Disconnect-Pending Subscription Version - Service Provider Owned
 R5-35: Modify Active Subscription Version - Version Identification
 R5-36: Modify Active Subscription Version - Input Data
 R5-37: Active Subscription Version - New Service Provider Optional input data.
 R5-38.1: Modify Active Subscription Version - Field-level Data Validation
 R5-38.2: Modify Active Subscription Version - LRN Validation
 RR5-124: Modify Disconnect Pending Subscription Version - Input Data
 RR5-125: Modify Disconnect Pending Subscription Version - Field-level Data Validation

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RR5-126: Modify Disconnect Pending Subscription Version - Valid Dates for CDD and ERD
 RR5-127: Modify Disconnect Pending Subscription Version - Version Identification
 RR5-128: Modify Disconnect Pending Subscription Version - Rejection for Empty CDD
 R5-39.1: Modify Active/Disconnect Pending Subscription Version - Validation Failure Notification
 R5-39.2: Modify Active/Disconnect Pending Subscription Version - Validation Error Processing
 R5 40.1: Modify Active Subscription Version - Broadcast Date/Time Stamp
 R5-40.3: Modify Active Subscription Version - Modification Success User Notification
 R5-40.4: Modify Active Subscription Version - Broadcast complete Time Stamp
 R5 41: Activation Of A Modified Subscription Version
 RR5-129: Activation Of A Modified Disconnect Pending Subscription Version when ERD is Modified to Current Date
 RR5-41.1: Broadcast Modified Active Subscription - Local SMS Identification
 RR5-41.2: Broadcast Modified Active Subscription - Send to Local SMSs
 RR5-41.3: Broadcast Modified Active Subscription - Set to Sending
 RR5-41.4: Modify Active Subscription Version - Return Status
 RR5 41.5: Modify Active Subscription Activation Retry Attempts - Tunable Parameter
 RR5-41.6: Modify Active Subscription Activation Retry Interval - Tunable Parameter
 RR5-41.7: Modify Active Subscription Version Failure Retry
 RR5-41.8: Modify Active Subscription Version Failure - Status Sending
 RR5-41.9: Modify Active Subscription Version Failure - Local SMS Identification
 RR5-41.10: Subscription Version Activation - Resend to Failed Local SMSs
 RR5-41.11: Modify Active Subscription Version - Failed Local SMS Notification Current Service Provider

☒ (no answer)

☐ Yes

☐ No

5.1.2.2.3 STATEMENT:

TRD FRS Section 5: Sub Section 5.1.2.2.3: Subscription Version Conflict

This section provides the requirements for the functionality to place a Subscription Version in to conflict and remove it from conflict

5.1.2.2.3.1* QUESTION:

TRD FRS Section 5: Sub Section 5.1.2.2.3.1: Placing Subscription Version in Conflict

Does the Respondent's proposal fully comply with these requirements in time to meet the published implementation date?

R5-42: Conflict Subscription Version - Version Identification
 R5-43.1: Conflict Subscription Version - Invalid Status Notification
 R5-43.2: Conflict Subscription Version - No Cause Code Notification
 RR5-42.1: Conflict Subscription Version - Old Service Provider Number Restriction
 RR5-42.2: Conflict Subscription Version - Conflict Restriction Window
 RR5-50: Conflict Subscription Version - Conflict Restriction Window- Old Service Provider
 RR5-51: Conflict Subscription Version - Conflict Restriction Rules for Old Service Provider
 AR5-2: Conflict Restriction Window Tunable due date value

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RR5-42.3: Conflict Subscription Version - Conflict Restriction Window Tunable
 RR5-42.4: Conflict Subscription Version - Conflict Restriction Window Tunable Default
 RR5-42.5: Conflict Subscription Version - Short Timer Usage
 R5-44.1: Conflict Subscription Version - Set Status to Conflict
 R5-44.2: Conflict Subscription Version - Set Conflict Date and Time
 R5-44.3: Conflict Subscription Version - Successful Completion Message
 R5-45.1: Conflict Expiration Window - Tunable Parameter
 R5-45.2: Conflict Expiration Window - Tunable Parameter Default
 R5-45.3: Conflict Expiration Window - Tunable Parameter Modification
 R5-45.4: Conflict Subscription Version - Set to Cancel
 R5-45.5: Conflict Subscription Version - Set Cancellation Date Timestamp
 R5-45.6: Conflict Subscription Version - Inform Service Providers of Cancel Status

- ☒ (no answer)
☐ Yes
☐ No

5.1.2.2.3.2* QUESTION:

TRD FRS Section 5: Sub Section 5.1.2.2.3.2: Removing a Subscription Version from Conflict

Does the Respondent's proposal fully comply with these requirements in time to meet the published implementation date?

R5-46: Conflict Resolution Subscription Version - Version Identification
 R5-47: Conflict Resolution Subscription Version - Invalid Status Notification
 R5-50.1: Conflict Resolution Subscription Version - Set Status
 R5-50.2: Conflict Resolution Subscription Version - Status Message
 RR5-12.1: Conflict Resolution Subscription Version - Inform Both Service Providers of Pending Status
 RR5-12.3: Conflict Resolution New Service Provider Restriction Tunable Parameter
 RR5-12.4: Long Conflict Resolution New Service Provider Restriction - Tunable Parameter Default
 RR5-12.5: Conflict Resolution New Service Provider Restriction Tunable Parameter Modification
 RR5-12.6: Short Conflict Resolution New Service Provider Restriction - Tunable Parameter Default
 RR5-14: Conflict Resolution Acknowledgment - Update Conflict Resolution Date and Time Stamp
 RR5-137: Conflict Resolution Subscription Version - Restriction for Cause Code Values
 RR5-138: Conflict Resolution Subscription Version -Conflict Resolution New Service Provider Restriction Tunable Application
 RR5-139: Conflict Resolution Subscription Version - Restricted Cause Code Notification
 RR5-168: Regional Prevent Conflict Resolution 50/51 Tunable
 RR5-169: Regional Prevent Conflict Resolution 50/51 Tunable Default
 RR5-170: Regional Prevent Conflict Resolution 50/51 Tunable Modification

- ☒ (no answer)
☐ Yes
☐ No

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5.1.2.2.4* QUESTION:

TRD FRS Section 5: Sub Section 5.1.2.2.4: Subscription Version Activation

This section provides the requirements for the Subscription Version Activation functionality, which is executed upon the NPAC personnel or SOA to NPAC/SMS interface user requesting to activate a Subscription Version.

Does the Respondent's proposal fully comply with these requirements in time to meet the published implementation date?

R5-51.1: Activate Subscription Version - Version Identification
 R5-51.2: Activate Subscription Version - Broadcast Complete Date and Time Stamp
 RR5-21: Activate "porting to original" Subscription Version
 RR5-22: Activate Subscription Version - Set Activation Received Timestamp
 R5-52: Activate Subscription Version - Invalid Status Notification
 R5-53.1: Activate Subscription Version - Validation
 R5-53.2: Activate Subscription Version Validation Error Message
 R5-53.3: Activate Subscription Version - Validate Due Date
 RR5-209: Activate "Intra-Service Provider Port" Subscription Version - Service Provider Tunable Value of TRUE for Pseudo-LRN Request
 R5-55: Activate Subscription Version - Local SMS Identification
 R5-57.1: Activate Subscription Version - Send to Local SMSs
 RR5-210: Activate Subscription Version - Local SMS Identification - Pseudo-LRN
 R5-57.2: Activate Subscription Version - Set to Sending
 R5-57.3: Activate Subscription Version - Date and Time Stamp
 R5-58.1: Local SMS Activation message logging
 R5-58.2: Local SMS Activation Log Retention Period - Tunable Parameter
 R5-58.3: Local SMS Activation Log Retention Period - Tunable Parameter Modification
 R5-58.4: Local SMS Activation Log Retention Period - Tunable Parameter Default
 R5-58.5: Local SMS Activation Message Log - Viewing
 R5-59.1: Activate Subscription Version - Set Status of Current to Active
 R5-59.2: Activate Subscription Version - Set Status of Previous to Old
 R5-60.1: Subscription Activation Retry Attempts - Tunable Parameter
 R5-60.2: Subscription Activation Retry Interval - Tunable Parameter
 R5-60.3: Subscription Activation Retry Attempts - Tunable Parameter Modification
 R5-60.4: Subscription Activation Retry Interval - Tunable Parameter Modification
 R5-60.5: Subscription Activation Retry Attempts - Tunable Parameter Default
 R5-60.6: Subscription Activation Retry Interval - Tunable Parameter Default
 R5-60.7: Subscription Version Activation Failure Retry
 R5-60.8: Subscription Version Activation Failure - After Retries
 R5-60.9: Subscription Version Activation Failure - Status Sending
 R5-60.10: Subscription Version Activation Failure - Local SMS Identification
 R5-60.11: Subscription Version Activation Failure - Set Status to Partial Failure
 R5-60.12: Subscription Version Partial Activation Failure - Set Status of Previous to Old
 R5 61.1: Subscription Version Activation - Set Status to Failure
 R5-61.2: Subscription Version Activation Subscription Version - Failure Notification
 R5-61.3: Subscription Version Activation - Resend to Failed Local SMSs
 RR5-22.1: Subscription Version Activation - Failed Local SMS Notification - Both Service Providers
 RR5-22.2: Subscription Version Activation - Failed Local SMS Notification - Current Service Provider
 RR5-60: Activate Intra-Service Provider Port - After NPA-NXX-X Creation and Prior to the Existence of the Block
 RR5 219: Activate Subscription Version - Pending SV with no underlying Pooled or Ported SV
 RR5-211: Activate "Intra-Service Provider Port" Subscription Version - Send Notification of Activation of Pseudo-LRN Record

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RR5-61: Activate Port-to-Original Subscription Version - Broadcast of Subscription Data Creation
 RR5-62: Activate Port-to-Original Subscription Version - Broadcast of Subscription Data Deletion
 RR5-171: Activate Subscription Version - Send SV Type Data to Local SMSs
 RR5-172: Activate Subscription Version - Send Alternative SPID to Local SMSs
 RR5-190: Activate Subscription Version - Send Last Alternative SPID to Local SMSs
 RR5-191: Activate Subscription Version - Send Alt-End User Location Value to Local SMSs
 RR5-192: Activate Subscription Version - Send Alt-End User Location Type to Local SMSs
 RR5-193: Activate Subscription Version - Send Alt-Billing ID to Local SMSs
 RR5-194: Activate Subscription Version - Send Voice URI to Local SMSs
 RR5-195: Activate Subscription Version - Send MMS URI to Local SMSs
 RR5-196: Activate Subscription Version - Send SMS URI to Local SMSs

- ☒ (no answer)
- ☐ Yes
- ☐ No

5.1.2.2.5* QUESTION:

TRD FRS Section 5: Sub Section 5.1.2.2.5: Subscription Version Disconnect

This section provides the requirements for the Subscription Version Disconnect functionality, which is executed upon the NPAC personnel or SOA to NPAC/SMS interface user requesting to have a Subscription Version disconnected.

Does the Respondent's proposal fully comply with these requirements in time to meet the published implementation date?

R5-62: Disconnect Subscription Version - Version Identification
 RR5-23.1: Disconnect Subscription Version - Required Input Data
 RR5-23.2: Disconnect Subscription Version - Optional Input Data
 RN5-10: Disconnect Subscription Version - Invocation by Current Service Provider
 R5-63: Disconnect Subscription Version - Invalid Status Notification
 R5-64.1: Disconnect Subscription Version - Cancel Other Version Notification
 RR5-212: Disconnect "Intra-Service Provider Port" Subscription Version - Service Provider Tunable Value of TRUE for Pseudo-LRN Request
 RR5-24: Disconnect Subscription Version -Set to Disconnect Pending
 RR5-25.1: Disconnect Subscription Version - Disconnect Pending Status Notification
 RR5-25.2: Disconnect Subscription Version - Customer Disconnect Date Notification
 R5 65.1: Disconnect Subscription Version -Immediate Broadcast
 R5-65.2: Disconnect Subscription Version - Deferred Broadcast
 R5-65.4: Disconnect Subscription Version - Broadcast Interface Message to Local SMSs
 RR5-213: Disconnect Subscription Version - Local SMS Identification - Pseudo-LRN
 R5-65.5: Disconnect Subscription Version - Disconnect Broadcast Date and Time Stamp
 R5-65.6: Disconnect Subscription Version - Set to Sending
 R5-66.2: Disconnect Subscription Version Complete - Set Disconnect Complete Date
 R5-66.3: Disconnect Subscription Version Complete - Set Disconnect to Old
 R5-66.4: Disconnect Subscription Version Complete - Status Update of SV
 RR5-214: Disconnect "Intra-Service Provider Port" Subscription Version - Send Notification of Disconnect of Pseudo-LRN Record
 R5-67.1: Disconnect Subscription Version - Set Status to Active

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R5-67.2: Disconnect Pending Subscription Version - Failure Notification
 R5-67.3: Disconnect Subscription Version - Resend Disconnect Requests to All Local SMSs
 R5-68.1: Disconnect Subscription Version - Subscription Disconnect Retry Attempts - Tunable Parameter
 R5-68.2: Disconnect Pending Subscription Version - Subscription Disconnect Retry Attempts - Tunable Parameter Default
 R5-68.3: Disconnect Subscription Version - Subscription Disconnect Retry Interval - Tunable Parameter
 R5-68.4: Disconnect Subscription Version - Subscription Disconnect Retry Interval - Tunable Parameter Default
 R5-68.5: Disconnect Subscription Version - Retry Processing
 R5-68.6: Disconnect Subscription Version - Sending Status during Retries
 R5-68.7: Disconnect Subscription Version - Retry Failed
 R5-68.8: Disconnect Subscription Version - Failure Notification after Retries Complete
 R5-68.9: Disconnect Subscription Version - Set to Old
 R5-68.10: Disconnect Subscription Version - Resend Disconnect Requests to Failed Local SMSs
 RR5-63: Disconnect Subscription Version or Port-To-Original - Pooled Number Block Default Routing Restoration
 RR5-64: Disconnect Subscription Version - Customer Disconnect Date Notification for Pooled Number
 RR5-65: Disconnect Subscription Version - Broadcast of Subscription Data Creation
 RR5-66: Disconnect Subscription Version - Broadcast of Subscription Data Deletion
 RR5-67.1: Disconnect Subscription Version - Updates to the Status for Disconnect
 RR5-67.2: Disconnect Subscription Version - Setting of the Status for Disconnected SV
 RR5-67.3: Disconnect Subscription Version - Setting of the Status for Newly Created SV
 RR5-68.1: Disconnect Subscription Version - Updates to the Status for Port-to-Original
 RR5-68.2: Disconnect Subscription Version - Setting of the Status for Port-to-Original SV
 RR5-68.3: Disconnect Subscription Version - Setting of the Status for Port-to-Original SV that was active prior to the PTO activation request
 RR5-68.4: Disconnect Subscription Version - Setting of the Status for Port-to-Original for Newly Created SV
 RR5-69: Disconnect Subscription Version - Updates to the Failed SP List for Disconnect
 RR5-70: Disconnect Subscription Version - Updates to the Failed SP List for Port-To-Original

- ☒ (no answer)
☐ Yes
☐ No

5.1.2.2.6* QUESTION:

TRD FRS Section 5: Sub Section 5.1.2.2.6: Subscription Version Cancellation

This section provides the requirements for the Subscription Version Cancellation functionality (including "un-do" of a 'cancel-pending' Subscription Version), which is executed upon the NPAC personnel or SOA to NPAC/SMS interface user requesting to cancel a Subscription Version.

Does the Respondent's proposal fully comply with these requirements in time to meet the published implementation date?

RR5-26.1: Cancel Subscription Version - Inform Both Service Providers of Cancel Pending Status
 R5-69: Cancel Subscription Version - Version Identification
 R5-70: Cancel Subscription Version - Invalid Status Notification

EXHIBIT A-3

RR5-27: Cancel Subscription Version - Validate Service Provider
R5 71.2: Cancel Subscription Version - Set Cancellation Date and Time Stamp
R5-71.3: Cancel Subscription Version- Set to Cancel Old Service Provider only
R5-71.4: Cancel Subscription Version- Set to Cancel New Service Provider only
R5-71.5: Cancel Subscription version- Error on Cancellation
R5-71.6: Cancel Subscription Version- Set Pending subscription version to Cancel Pending Status Inter-Service Provider port
R5-71.8: Cancel Subscription Version- Set Conflict Subscription to Cancel New Service Provider only
R5-71.9: Cancel Subscription Version - Rejection of Old Service Provider Conflict Cancellation
R5-71.10: Cancel Subscription Version- Set Disconnect Pending subscription version to Active
R5-71.11: Cancel Subscription Version- Set to Cancel Status - Intra-Service Provider port
RR5-28.1: Cancel Subscription Version - Set to Cancel After Service Provider Acknowledge
RR5-29.1: Cancel Subscription Version - Inform Both Service Providers of Cancel Status
RR5-29.2: Cancel Subscription Version - Inform Current Service Provider of Cancel Status
RR5-30: Cancel Subscription Version Acknowledgment - Update Old Service Provider Date and Time Stamp
RR5-31: Cancel Subscription Version Acknowledgment - Update New Service Provider Date and Time Stamp
RR5-32.1: Cancellation-Initial Concurrence Window - Tunable Parameter
RR5-32.2: Cancellation-Initial Concurrence Window - Tunable Parameter Modification
RR5-32.3: Long Cancellation-Initial Concurrence Window - Tunable Parameter Default
RR5-32.4: Short Cancellation-Initial Concurrence Window - Tunable Parameter Default
RR5-33.1: Cancellation-Final Concurrence Window - Tunable Parameter
RR5-33.2: Cancellation-Final Concurrence Window Tunable Parameter Modification
RR5-33.3: Long Cancellation-Final Concurrence Window - Tunable Parameter Default
RR5-33.4: Short Cancellation-Final Concurrence Window - Tunable Parameter Default
RR5-34: Cancellation-Initial Concurrence Window - Tunable Parameter Expiration
RR5-35.1: Cancellation-Final Concurrence Window - Tunable Parameter Expiration New Service Provider
RR5-35.2: Cancellation-Final Concurrence Window - Tunable Parameter Expiration Old Service Provider
RR5-36.1: Cancel Subscription Version - Cause Code for New SP Timer Expiration
RR5-36.2: Cancel Subscription Version - Inform Service Providers of Conflict Status
RR5-165: Regional Automatic Conflict Cause Code Tunable
RR5-166: Regional Automatic Conflict Cause Code Tunable Default
RR5-167: Regional Automatic Conflict Cause Code Tunable Modification

- ☒ (no answer)
☐ Yes
☐ No

5.1.2.2.6.1*

QUESTION:

TRD FRS Section 5: Sub Section 5.1.2.2.6.1: Un-Do a "Cancel Pending" Subscription

Does the Respondent's proposal fully comply with these requirements in time to meet the published implementation date?

EXHIBIT A-3

RR5-143: Un-Do a Cancel-Pending Subscription Version - Notification
 RR5-144: Un-Do a Cancel-Pending Subscription Version - Request Data
 RR5-164: Un-Do a Cancel-Pending Subscription Version - New Status Specified Error
 RR5-145: Un-Do a Cancel-Pending Subscription Version - Version Status Error
 RR5-147: Un-Do a Cancel-Pending Subscription Version - Timestamp
 RR5-149: Un-Do a Cancel-Pending Subscription Version - Missing Cancel Error
 RR5-150: Un-Do a Cancel-Pending Subscription Version - Status Change

☒ (no answer)

☐ Yes

☐ No

5.1.2.2.7* QUESTION:

TRD FRS Section 5: Sub Section 5.1.2.2.7: Subscription Version Resend

This section provides the requirements for the Subscription Version resend functionality, which is executed upon the NPAC personnel requesting to resend a Subscription Version.

Does the Respondent's proposal fully comply with these requirements in time to meet the published implementation date?

RR5-38.1.1: Resend Subscription Version - Identify Subscription Version
 RR5-38.1.2: Resend Subscription Version - Identify Multiple Subscription Versions
 RR5-38.2: Resend Subscription Version - Input Data
 RR5-38.3: Resend Subscription Version - Error Message
 RR5-38.4: Resend Subscription Version - Activation Request
 RR5-38.5: Resend Subscription Version - Disconnect Request
 RR5-38.6: Resend Subscription Version - Failed or Partial Failure
 RR5-38.7: Resend Subscription Version - Standard Activation Processing
 RR5-38.8: Resend Subscription Version - Standard Disconnect Processing
 RR5-38.9: Resend Subscription Version - Modify Active Request
 RR5-38.10: Resend Subscription Version - Standard Modify Active Processing
 RR5-71: Re-Send of Number Pooling Subscription Version Information - NPAC Personnel OpGUI
 RR5-72: Re-Send of Number Pooling Subscription Version Information - Subscription Versions sent to discrepant non-EDR Local SMS
 RR5-73: Re-Send of Number Pooling Subscription Version Information - Sending Status Update to Failed Subscription Versions for Block Activation
 RR5-74: Re-Send of Number Pooling Subscription Version Information - Sending Status Update to Partial failure Subscription Versions for Block Activation
 RR5-75: Re-Send of Number Pooling Subscription Version Information - Sending Status Update to Active Subscription Version for Block Modification or Deletion
 RR5-76: Re-Send of Number Pooling Subscription Version Information - Sending Status Update to Old Subscription Version for Block Deletion
 RR5-77: Re-Send of Number Pooling Subscription Version Information - Update to Failed SP List
 RR5-78: Re-Send of Number Pooling Subscription Version Information -Status Update to Subscription Version after Re-Send
 RR5-79: Re-Send of Number Pooling Subscription Version Information -Failed SP List Update to Subscription Version after Re-Send

EXHIBIT A-3

RR5-80: Re-Send of Subscription Version Information - Disconnect or Port-To-Original of a TN within a Pooled 1K Block
 RR5-81.1: Re-Send of Subscription Version Information - Disconnect TN within a Pooled 1K Block to EDR Local SMS
 RR5-81.2: Re-Send of Subscription Version Information - Disconnect TN within a Pooled 1K Block to non-EDR Local SMS
 RR5-82.1: Re-Send of Subscription Version Information -Port-To-Original TN within a Pooled 1K Block to EDR Local SMS
 RR5-82.2: Re-Send of Subscription Version Information -Port-To-Original TN within a Pooled 1K Block to non-EDR Local SMS
 RR5-151: Subscription Version Failed SP List - Exclusion of a Service Provider from Resend
 RR5-152: Subscription Version Failed SP List - Logging of an Excluded Service Provider

- ☒ (no answer)
☐ Yes
☐ No

5.1.3 STATEMENT:

TRD FRS Section 5: Sub Section 5.1.3: Subscription Queries

This section provides the requirements for the Subscription Version Query functionality, which is executed upon the user requesting a query of a Subscription Version (R5-13).

5.1.3.1* QUESTION:

TRD FRS Section 5: Sub Section 5.1.3.1: User Functionality

Does the Respondent's proposal fully comply with these requirements in time to meet the published implementation date?

R5-72: Query Subscription Version - Request
 RR5-215: Query of Subscription Versions for Pseudo-LRN - Service Provider Personnel - SOA Interface
 RR5-216: Query of Subscription Versions for Pseudo-LRN - Service Provider Personnel - LSMS Interface
 RR5-217: Query of Subscription Versions for Pseudo-LRN - Service Provider Personnel - LTI

- ☒ (no answer)
☐ Yes
☐ No

5.1.3.2* QUESTION:

TRD FRS Section 5: Sub Section 5.1.3.2: System Functionality

EXHIBIT A-3

The following requirements specify the NPAC/SMS query functionality defined above.

Does the Respondent's proposal fully comply with these requirements in time to meet the published implementation date?

R5-73: Query Subscription Version - Version Identification
 R5-74.1: Query Subscription Version - Status Supplied
 R5-74.2: Query Subscription Version - Return All Subscription Versions for Ported TN
 R5-74.3: Query Subscription Version - Output Data - SOA
 R5-74.4: Query Subscription Version - Output Data - LSMS
 RR5-153: Subscription Version Query - Sort Order
 R5-75: Query Subscription Version -No Data Found
 RN5-4: Query Subscription Version - Retrieve Data, Modification Not Allowed
 RN5-5: Query Subscription Version - Retrieve Data Based on Single Ported TN Only
 RN5-6: Query Subscription Version - View for Any Ported TN
 RR5-39: Query Subscription Version - View Old, Partial Failure, Disconnect Pending, Canceled or Active Only
 RR5-174: NPAC/SMS shall return all Subscription Versions
 RR5-175: Service Provider subscription query
 RR5-40: Query Subscription Version - Online Records Only
 RR5-83: Query Subscription Version - LNP Type of POOL
 RR5-154: Subscription Version Query - Maximum Subscription Version Query by the SOA
 RR5-155: Subscription Version Query - Maximum Subscription Version Query by the LSMS
 RR5-176: Count of subscription information during a query
 RR5-177: Service Provider subscription query options
 RR5-178: Error Message for Service Provider subscription query
 RR5-156: Service Provider SOA SV Query Indicator
 RR5-157: Service Provider SOA SV Query Indicator Default
 RR5-158: Service Provider SOA SV Query Indicator Modification
 RR5-159: Service Provider LSMS SV Query Indicator
 RR5-160: Service Provider LSMS SV Query Indicator Default
 RR5-161: Service Provider LSMS SV Query Indicator Modification

- ☒ (no answer)
☐ Yes
☐ No

5.1.4 STATEMENT:

TRD FRS Section 5: Sub Section 5.1.4: Subscription Version Processing for National Number Pooling

This section details the functional requirements for user interaction (either NPAC Personnel or Service Provider Personnel via their SOA and/or LSMS to NPAC/SMS interface) with the NPAC/SMS to appropriately operate in the National Number Pooling environment.

5.1.4.1* QUESTION:

EXHIBIT A-3

TRD FRS Section 5: Sub Section 5.1.4.1: Subscription Version, General

The following requirements outline the basic NPAC/SMS processing requirements for subscription versions in a National Number Pooling environment.

Does the Respondent's proposal fully comply with these requirements in time to meet the published implementation date?

- RR5-84: Number Pooling Subscription Version Information - Reject Messages
- RR5-85: Number Pooling Subscription Version Information - Suppression of Notifications
- RR5-85.5: Number Pooling Subscription Version Information - Disconnect Notifications to Donor Service Provider
- RR5-86: Number Pooling Subscription Version Information - Filters for "Pooled Number" Subscription Versions
- RR5-87: Number Pooling Subscription Version Information - Broadcast of Subscription Data
- RR5-88: Number Pooling Subscription Version Information - Failed SP List Update for Block
- RR5-89: Number Pooling Subscription Version Information - Data Integrity for Pooled Subscription Versions and Block

- ☒ (no answer)
- ☐ Yes
- ☐ No

5.1.4.2* QUESTION:

TRD FRS Section 5: Sub Section 5.1.4.2: Subscription Version, Addition for Number Pooling

The following section outlines the NPAC/SMS functional requirements for processing pooled subscription version additions. Subscription versions with LNP Type set to POOL are created when a Number Pool Block is activated.

Does the Respondent's proposal fully comply with these requirements in time to meet the published implementation date?

- RR5-90: Addition of Number Pooling Subscription Version Information - Subscription Data
- RR5-91: Addition of Number Pooling Subscription Version Information - Create "Pooled Number" Subscription Version
- RR5-92: Addition of Number Pooling Subscription Version Information Create "Pooled Number" Subscription Version - Bypass of Existing Subscription Versions
- RR5-93: Addition of Number Pooling Subscription Version Information Create "Pooled Number" Subscription Version - Set to Sending
- RR5-94: Addition of Number Pooling Subscription Version Information - Status Update
- RR5-95: Addition of Number Pooling Subscription Version Information - Failed SP List
- RR5-220: Addition of Number Pooling Subscription Version Information - Create "Pooled Number" Subscription Version - Status Rollup to Active with empty Failed SP List

- ☒ (no answer)
- ☐ Yes
- ☐ No

EXHIBIT A-3

5.1.4.3* QUESTION:

TRD FRS Section 5: Sub Section 5.1.4.3: Subscription Version, Block Create Validation of Subscription Versions

The following requirements define validation processing on behalf of the NPAC/SMS once a Number Pool Block has been activated.

Does the Respondent's proposal fully comply with these requirements in time to meet the published implementation date?

RR5-96: Block Create Validation of Subscription Versions - Subscription Version Completion Check
RR5-97: Block Create Validation of Subscription Versions - First Time Execution of Subscription Version Completion Check
RR5-98: Block Create Validation of Subscription Versions - Subscription Version Create for Missing TNs
RR5-99: Block Create Validation of Subscription Versions - Subscription Version Broadcast to non-EDR Local SMS
RR5-100: Block Create Validation of Subscription Versions - Block Status Update
RR5-101: Block Create Validation of Subscription Versions - Block Failed SP List Update
RR5-102: Block Create Validation of Subscription Versions - Subscription Version Logging

- ☒ (no answer)
☐ Yes
☐ No

5.1.4.4* QUESTION:

TRD FRS Section 5: Sub Section 5.1.4.4: Subscription Version, Modification for Number Pooling

Does the Respondent's proposal fully comply with these requirements in time to meet the published implementation date?

RR5-103: Modification of Number Pooling Subscription Version Information - Subscription Data
RR5-104: Modification of Number Pooling Subscription Version Information - Status Update to Sending
RR5-105: Modification of Number Pooling Subscription Version Information - Status Update
RR5-106: Modification of Number Pooling Subscription Version Information - Failed SP List

- ☒ (no answer)
☐ Yes
☐ No

5.1.4.5* QUESTION:

TRD FRS Section 5: Sub Section 5.1.4.5: Subscription Version, Deletion for Number Pooling

EXHIBIT A-3

Does the Respondent's proposal fully comply with these requirements in time to meet the published implementation date?

RR5-107: Deletion of Number Pooling Subscription Version Information - Sending Status Update to Subscription Versions
 RR5-108: Deletion of Number Pooling Subscription Version Information - Broadcast of Subscription Version Data
 RR5-109: Deletion of Number Pooling Subscription Version Information - Status Update to Subscription Versions
 RR5-110: Deletion of Number Pooling Subscription Version Information - Failed SP List

- ☒ (no answer)
☐ Yes
☐ No

5.1.4.6* QUESTION:

TRD FRS Section 5: Sub Section 5.1.4.6: Subscription Version, Block Delete Validation Subscription Versions

Does the Respondent's proposal fully comply with these requirements in time to meet the published implementation date?

RR5-111: Block Delete Validation of Subscription Versions - Ensure no Subscription Versions with LNP Type POOL

- ☒ (no answer)
☐ Yes
☐ No

6. TRD FRS Section 6: NPAC/SMS INTERFACES

6.1 STATEMENT:

TRD FRS Section 6: Sub Section 6.1: SOA to NPAC/SMS Interface

The SOA to NPAC/SMS Interface is a CMIP-based, mechanized interface to the NPAC/SMS. The SOA interface supports the Service Provider's Service Order Administration (SOA) systems. This interface is referred to as the SOA to NPAC/SMS interface. This interface supports two-way communications between service providers SOA systems and the NPAC/SMS.

6.2 STATEMENT:

EXHIBIT A-3

TRD FRS Section 6: Sub Section 6.2: NPAC/SMS to LSMS Interface

The LSMS to NPAC/SMS Interface is a CMIP-based, mechanized interface to the NPAC/SMS. The LSMS interface supports the Service Provider's Local Service Management System (LSMS). This interface is referred to as the NPAC/SMS to LSMS interface. This interface support two-way communications between the service providers LSMS and the NPAC/SMS.

6.3* QUESTION:

TRD FRS Section 6: Sub Section 6.3: Interface Transactions

The CMIP protocol provides for six types of transactions over the interface (Reference: ISO 9595 and 9596). They are:

- Create
- Delete
- Set
- Get
- M-Action
- Event Report

Does the Respondent's proposal fully comply with the requirement below in time to meet the published implementation date?

R6-22: Manager-agent relationship of interface transactions.

- ☒ (no answer)
- ☐ Yes
- ☐ No

6.4* QUESTION:

TRD FRS Section 6: Sub Section 6.4: Interface and Protocol Requirements

While it is expected that dedicated links will be used for the interfaces, switched connections should also be supported. Reliability and availability of the links will be essential and high capacity performance will be needed.

Does the Respondent's proposal fully comply with the requirement below in time to meet the published implementation date?

R6-23: Open interfaces

EXHIBIT A-3

- ☒ (no answer)
- ☐ Yes
- ☐ No

6.4.1* QUESTION:

TRD FRS Section 6: Sub Section 6.4.1: Protocol Requirements

Does the Respondent's proposal fully comply with these requirements below, in time to meet the published implementation date?

R6-24: Interface protocol stack
R6-25: Multiple application associations

- ☒ (no answer)
- ☐ Yes
- ☐ No

6.4.2* QUESTION:

TRD FRS Section 6: Sub Section 6.4.2: Interface Performance Requirements

Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?

R6-26: Interface availability
R6-27: Interface Reliability
R6-28.1: SOA to NPAC/SMS interface transaction rates - sustained
R6-28.2: SOA to NPAC/SMS interface transaction rates - peak
RR6-107: SOA to NPAC/SMS interface transaction rates - total bandwidth
RR6-108: NPAC/SMS to Local SMS interface transaction rates - sustained
RR6-109: NPAC/SMS to Local SMS interface transaction rates - total bandwidth

- ☒ (no answer)
- ☐ Yes
- ☐ No

6.4.3* QUESTION:

EXHIBIT A-3

TRD FRS Section 6: Sub Section 6.4.3: Interface Specification Requirements

Does the Respondent's proposal fully comply with these requirements below in time to meet the published implementation date?

R6-30.1: Interface specification

R6-30.2: Interface specification identification

R6-35: NPAC/SMS Interoperable Interface Specification extensibility

RR6-1: Acknowledgment of a Cancel Pending for a Subscription Version

RR6-2: Acknowledgment of a Conflict Resolution for a Subscription Version

RR6-3: Deferred Disconnect of a Subscription Version

RR6-4: Cancel Request Notification

RR6-5: Conflict Resolution Request Notification



(no answer)



Yes



No

6.4.4* QUESTION:

TRD FRS Section 6: Sub Section 6.4.4: Request Restraints Requirements

Does the Respondent's proposal fully comply with these requirements below in time to meet the published implementation date?

RR6-8: Tunable Parameter Number of Aggregated Download Records

RR6-9: Download Time Tunable Parameter to Restricted Time Range

RR6-13: Queries Constrained by NPA-NXX

RR6-14: Subscription Version Resynchronization Filter Usage



(no answer)



Yes



No

6.4.5* QUESTION:

TRD FRS Section 6: Sub Section 6.4.5: Application Level Errors Requirements

Does the Respondent's proposal fully comply with these requirements below in time to meet the published implementation date?

EXHIBIT A-3

RR6-110: NPAC/SMS Application Level Errors
 RR6-111: NPAC/SMS Application Level Error Details
 RR6-112: NPAC/SMS Application Level Error Details in soft format
 RR6-113: SOA Action Application Level Errors Indicator
 RR6-114: SOA Action Application Level Error Indicator Default
 RR6-115: SOA Action Application Level Errors Indicator Modification
 RR6-116: LSMS Action Application Level Errors Indicator
 RR6-117: LSMS Action Application Level Errors Indicator Default
 RR6-118: LSMS Action Application Level Errors Indicator Modification
 RR6-119: LSMS Application Level Errors Indicator
 RR6-193: SOA Non-Action Application Level Errors Indicator
 RR6-194: SOA Non-Action Application Level Errors Indicator Default
 RR6-195: SOA Non-Action Application Level Errors Indicator Modification
 RR6-196: LSMS Non-Action Application Level Errors Indicator
 RR6-197: LSMS Non-Action Application Level Errors Indicator Default
 RR6-198: LSMS Non-Action Application Level Errors Indicator Modification

- ☒ (no answer)
☐ Yes
☐ No

6.5* QUESTION:

TRD FRS Section 6: Sub Section 6.5: NPAC SOA Low-tech Interface Requirements

The NPAC SOA Low-tech Interface supports the request functionality of the SOA to NPAC/SMS interface.

Does the Respondent's proposal fully comply with these requirements below in time to meet the published implementation date?

RX6-2.1: NPAC SOA Low-tech Interface
 RX6-2.2: SOA to NPAC/SMS Create Subscription Versions administration requests via an NPAC SOA Low-tech Interface
 RX6-2.3: SOA to NPAC/SMS Cancel Subscription Versions administration requests via an NPAC SOA Low-tech Interface
 RX6-2.4: SOA to NPAC/SMS Modify Subscription Versions administration requests via an NPAC SOA Low-tech Interface
 RX6-2.5: SOA to NPAC/SMS Query Subscription Versions administration requests via an NPAC SOA Low-tech Interface
 RX6-2.6: SOA to NPAC/SMS Activate Subscription Versions administration requests via an NPAC SOA Low-tech Interface
 RX6-2.7: SOA to NPAC/SMS Disconnect Subscription Versions administration requests via an NPAC SOA Low-tech Interface
 RR6-189: SOA to NPAC/SMS Un-Do Cancel-Pending Subscription Version administration requests via an NPAC SOA Low-tech Interface
 RX6-3: SOA to NPAC/SMS audit requests
 RR6-35: SOA to NPAC/SMS Number Pool Block Create Request via the SOA Low-tech Interface
 RR6-36: SOA to NPAC/SMS Number Pool Block Modify Request via the SOA Low-tech Interface
 RX6-4: NPAC/SMS Notification Handling

EXHIBIT A-3

- ☒ (no answer)
- ☐ Yes
- ☐ No

6.6* QUESTION:

TRD FRS Section 6: Sub Section 6.6: CMIP Request Retry Requirements

Does the Respondent's proposal fully comply with these requirements below in time to meet the published implementation date?

- RR6-15: SOA Retry Attempts - Tunable Parameter
- RR6-16: SOA Retry Interval - Tunable Parameter
- RR6-17: SOA Retry Attempts - Tunable Parameter Modification
- RR6-18: SOA Retry Interval - Tunable Parameter Modification
- RR6-19: SOA Retry Attempts - Tunable Parameter Default
- RR6-20: SOA Retry Interval - Tunable Parameter Default
- RR6-21: SOA Activation Failure Retry
- RR6-22: LSMS Retry Attempts - Tunable Parameter
- RR6-23: LSMS Retry Interval - Tunable Parameter
- RR6-24: LSMS Retry Attempts - Tunable Parameter Modification
- RR6-25: LSMS Retry Interval - Tunable Parameter Modification
- RR6-26: LSMS Retry Attempts - Tunable Parameter Default
- RR6-27: LSMS Retry Interval - Tunable Parameter Default
- RR6-28: LSMS Activation Failure Retry

- ☒ (no answer)
- ☐ Yes
- ☐ No

6.7* QUESTION:

TRD FRS Section 6: Sub Section 6.7: Recovery Requirements

The following requirements define the Recovery functionality supported by the NPAC/SMS to SOA interface and NPAC/SMS to LSMS interface.

Does the Respondent's proposal fully comply with these requirements below in time to meet the published implementation date?

- RR6-84: Linked Replies Information - Sending Linked Replies During Recovery
- RR6-85: Linked Replies Information - Service Provider SOA Linked Replies Indicator Sending of Linked Replies
- RR6-86: Linked Replies Information - Service Provider SOA Linked Replies Indicator Sending of Non-Linked Replies
- RR6-87: Linked Replies Information - Service Provider Local SMS Linked Replies Indicator Sending of Linked Replies

EXHIBIT A-3

RR6-88: Linked Replies Information - Service Provider Local SMS Linked Replies Indicator Sending of Non-Linked Replies
 RR6-122: SWIM Recovery Tracking
 RR6-123: Service Provider SOA SWIM Recovery Indicator
 RR6-124: Service Provider SOA SWIM Recovery Indicator Default
 RR6-125: Service Provider SOA SWIM Recovery Indicator Modification
 RR6-126: SOA SWIM Maximum Tunable
 RR6-127: SOA SWIM Maximum Tunable Default
 RR6-128: SOA SWIM Maximum Tunable Modification
 RR6-129: Service Provider LSMS SWIM Recovery Indicator
 RR6-130: Service Provider LSMS SWIM Recovery Indicator Default
 RR6-131: Service Provider LSMS SWIM Recovery Indicator Modification
 RR6-190: LSMS SWIM Maximum Tunable
 RR6-191: LSMS SWIM Maximum Tunable Default
 RR6-192: LSMS SWIM Maximum Tunable Modification
 RR6-199: Service Provider SOA SPID Recovery Indicator
 RR6-200: Service Provider SOA SPID Recovery Indicator Default
 RR6-201: Service Provider SOA SPID Recovery Indicator Modification
 RR6-202: Service Provider LSMS SPID Recovery Indicator
 RR6-203: Service Provider LSMS SPID Recovery Indicator Default
 RR6-204: Service Provider LSMS SPID Recovery Indicator Modification
 RR6-205: Service Provider SOA Cancel-Pending-to-Conflict Cause Code Tunable
 RR6-206: Service Provider SOA Cancel-Pending-to-Conflict Cause Code Tunable Default
 RR6-207: Service Provider SOA Cancel-Pending-to-Conflict Cause Code Tunable Modification
 RR6-208: Service Provider LSMS Cancel-Pending-to-Conflict Cause Code Tunable
 RR6-209: Service Provider LSMS Cancel-Pending-to-Conflict Cause Code Tunable Default
 RR6-210: Service Provider LSMS Cancel-Pending-to-Conflict Cause Code Tunable Modification

- ☒ (no answer)
☐ Yes
☐ No

6.8* QUESTION:

TRD FRS Section 6: Sub Section 6.8: Out-Bound Flow Control Requirements

The following requirements define the Out-Bound Flow Control functionality.

Does the Respondent's proposal fully comply with these requirements below in time to meet the published implementation date?

RR6-148: Out-Bound Flow Control Upper Threshold Tunable
 RR6-149: Out-Bound Flow Control Upper Threshold Tunable Default
 RR6-150: Out-Bound Flow Control Upper Threshold Tunable Modification
 RR6-151: Out-Bound Flow Control Lower Threshold Tunable
 RR6-152: Out-Bound Flow Control Lower Threshold Tunable Default
 RR6-153: Out-Bound Flow Control Lower Threshold Tunable Modification

EXHIBIT A-3

- ☒ (no answer)
- ☐ Yes
- ☐ No

6.9* QUESTION:

TRD FRS Section 6: Sub Section 6.9: Roll-Up Activity and Abort Behavior Requirements

The following requirements define the Roll-up Activity and Abort Behavior functionality.

Does the Respondent's proposal fully comply with these requirements below in time to meet the published implementation date?

RR6-154: Roll-Up Activity-Single Tunable
 RR6-155: Roll-Up Activity-Single Tunable Default
 RR6-156: Roll-Up Activity-Single Tunable Modification
 RR6-157: Roll-Up Activity Timer Expire SVRange Tunable
 RR6-158: Roll-Up Activity Timer Expire SVRange Tunable Default
 RR6-159: Roll-Up Activity Timer Expire SVRange Tunable Modification
 RR6-160: Abort Processing Behavior Upper Threshold Tunable
 RR6-161: Abort Processing Behavior Upper Threshold Tunable Default
 RR6-162: Abort Processing Behavior Upper Threshold Tunable Modification

- ☒ (no answer)
- ☐ Yes
- ☐ No

6.10* QUESTION:

TRD FRS Section 6: Sub Section 6.10: NPAC Monitoring of SOA and LSMS Associations Requirements

The following requirements define the NPAC Monitoring of SOA and LSMS Association functionality.

Does the Respondent's proposal fully comply with these requirements below in time to meet the published implementation date?

RR6-163: NPAC/SMS Monitoring of SOA and Local SMS Connections via an Application Level Heartbeat
 RR6-164: NPAC/SMS-to-SOA Application Level Heartbeat Indicator
 RR6-165: NPAC/SMS-to-SOA Application Level Heartbeat Indicator Default
 RR6-166: NPAC/SMS-to-SOA Application Level Heartbeat Indicator Modification
 RR6-167: NPAC/SMS-to-Local SMS Application Level Heartbeat Indicator
 RR6-168: NPAC/SMS-to- Local SMS Application Level Heartbeat Indicator Default
 RR6-169: NPAC/SMS-to- Local SMS Application Level Heartbeat Indicator Modification

EXHIBIT A-3

RR6-170: NPAC/SMS Application Level Heartbeat Tunable Parameter
 RR6-171: NPAC/SMS Application Level Heartbeat Tunable Parameter Usage
 RR6-172: NPAC/SMS Application Level Heartbeat Tunable Parameter Default
 RR6-173: NPAC/SMS Application Level Heartbeat Tunable Parameter Modification
 RR6-174: NPAC/SMS Application Level Heartbeat Timeout Tunable Parameter
 RR6-175: NPAC/SMS Application Level Heartbeat Timeout Tunable Parameter Usage
 RR6-176: NPAC/SMS Application Level Heartbeat Timeout Tunable Parameter Default
 RR6-177: NPAC/SMS Application Level Heartbeat Timeout Tunable Parameter Modification

- ☒ (no answer)
☐ Yes
☐ No

6.11* QUESTION:

TRD FRS Section 6: Sub Section 6.11: Separate SOA Channel for Notifications Requirements

The following requirements define the Separate SOA Channel for Notifications functionality.

Does the Respondent's proposal fully comply with these requirements below in time to meet the published implementation date?

RR6-178: SOA Notification Channel Service Provider Indicator
 RR6-179: SOA Notification Channel Service Provider Indicator - Default
 RR6-180: SOA Notification Channel Service Provider Indicator - Modification
 RR6-182: Separate Association for the Notification Function From different NSAPs
 RR6-183: Security Management of Multiple SOA Associations of Different Association Functions
 RR6-184: Sending of SOA Notifications when Notification Channel is Active
 RR6-185: Separate Notification Channel during Recovery
 RR6-186: Treatment of Multiple Associations when there is an Intersection of Association Function

- ☒ (no answer)
☐ Yes
☐ No

6.12* QUESTION:

TRD FRS Section 6: Sub Section 6.12: Maintenance Window Timer Behavior Requirements

The following requirements define the Maintenance Window Timer Behavior.

Does the Respondent's proposal fully comply with these requirements below in time to meet the published implementation date?

EXHIBIT A-3

RR6-187: NPAC Maintenance Windows - Timer Update Tool

RR6-188: NPAC Maintenance Windows - Timer Update Tool - Affected Timers

☒ (no answer)

☐ Yes

☐ No

7. TRD FRS Section 7: SECURITY

7.1 STATEMENT:

TRD FRS Section 7: Sub Section 7.1: Security Overview

In addition to the general security requirements based on the user interface paradigm, there are requirements for the security on an OSI application-to-application interface (such as the one specified in Section 6, NPAC/SMS Interfaces, for the SMS to SMS and SMS to SOA interfaces).

7.2* QUESTION:

TRD FRS Section 7: Sub Section 7.2: Identification Requirements

The NPAC will accept only authorized NPAC customers through interface connections, and among NPAC customers, the NPAC will make appropriate limitations on their actions (for example, letting only old or new Service Providers view a pending record). The NPAC will only accept authorized customer user IDs. However, the NPAC will make no distinction among an NPAC customer's employees; the NPAC customer and their systems must control individual NPAC customer employee actions.

A user identification is a unique, auditable representation of the user's identity within the system. The NPAC/SMS requires all system users, both individuals and remote machines, to be uniquely identified to support individual accountability over the NPAC Administrative and NPAC SOA Low-tech Interfaces.

Does the Respondent's proposal fully comply with these requirements below in time to meet the published implementation date?

R7-1: Unique User Identification Codes - Individuals

R7-2: Assigned Userid Identification

R7-3: Current Active User List Maintenance

R7-4: User Invoked Processes

R7-5.1: Userids, Unused - Disabling

R7-5.2: Unused Userid Disable Period - Tunable Parameter

R7-5.3: Unused Userid Disable Period - Tunable Parameter Modification

R7-5.4: Unused Userid Disable Period - Tunable Parameter Default

EXHIBIT A-3

- R7-6.1: Userids, Disabled - Reinstatement
- R7-6.2: Userids - Deletion
- R7-7: Userids - Temporary Disabling
- R7-8: Userids, Disabled - Automatic Reactivation
- R7-9.1: Userids - One Active Login
- R7-9.2: Second Login Attempt

- ☒ (no answer)
- ☐ Yes
- ☐ No

7.3* QUESTION:

TRD FRS Section 7: Sub Section 7.3: Authentication

The identity of all NPAC/SMS system users, both individuals and remote machines, must be verified or authenticated to enter the system, and to access restricted data or transactions over the NPAC Administrative and NPAC SOA Low-Tech Interfaces.

Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?

- R7-10: User Authentication
- R7-12: Authentication Data Protection

- ☒ (no answer)
- ☐ Yes
- ☐ No

7.3.1* QUESTION:

TRD FRS Section 7: Sub Section 7.3.1: Password Requirements

Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?

- R7-13: Passwords - Non-shared
- R7-14: Passwords - Userid Unique
- R7-15: Passwords - One-Way Encrypted
- R7-16: Passwords, Encrypted - Privileged Users Access Control
- R7-18: Passwords, Entry - Automatic Clear Text Suppression
- R7-19: Passwords - Network Transmission Clear Text Suppression
- R7-20: Passwords - Non-Null
- R7-21: Passwords - User-Changeable
- R7-22: Passwords - Reset Capability

EXHIBIT A-3

- R7-23.1: Passwords - Aging Enforcement
- R7-23.2: Password Aging Default
- R7-24.1: Passwords - Expiration Notification
- R7-24.2: Passwords - Expiration Notification Default
- R7-24.3: Passwords - Require User to Enter New Password
- R7-25.1: Passwords - Non-Reusable
- R7-25.2: Password Reuse Default
- R7-26.1: Passwords - Minimum Structure Standard #1
- R7-26.2: Passwords - Associated Userid
- R7-27.1: Password Generator
- R7-27.2: Passwords, System Generated - Attack Resistant
- R7-27.3: Passwords, System Generated - Random

- ☒ (no answer)
- ☐ Yes
- ☐ No

7.4 STATEMENT:

TRD FRS Section 7: Sub Section 7.4: Access Control

Access to the NPAC/SMS and other resources will be limited to those users that have been authorized for that specific access right.

7.4.1* QUESTION:

TRD FRS Section 7: Sub Section 7.4.1: System Access Requirements

Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?

- R7-28.1: System Access - Individuals
- R7-28.2: System Access - Remote Machines
- R7-29.1: System Access, User Information - Entry
- R7-29.2: System Access, User Information - Modification
- R7-31: System Access, Login - Trusted Communication
- R7-32.1: System Access - Disconnect User
- R7-32.2: Non-use Disconnect Tunable Parameter
- R7-33.1: System Access - User Authentication Failure
- R7-33.2: Incorrect Login Exit Default
- R7-34: System Access, User Authentication Failure - Notification
- R7-35.1: System Access - Login Process I/O Port Restart
- R7-35.2: Login Process Restart Default
- R7-36: System Access, User Authentication Failure - Userid Non-Suspension
- R7-37: System Access, User Authentication Procedure - Entry
- R7-38: System Access, User Authentication Procedure Entry - Error Feedback

EXHIBIT A-3

R7-39: System Access, User Authentication Procedure Entry - Time Parameters
 R7-40.1: System Access, User Authentication Procedure Entry - Method
 R7-40.2: System Access, User Authentication Procedure Entry - Location
 R7-41: System Access, User Authentication Procedure Entry - SSL VPN Limitations
 R7-42.1: System Access - Network Basis
 R7-42.2: System Access - Per-Port Basis
 R7-43.1: System Access, Network Authentication
 R7-43.2: Internet Access
 R7-43.3: SSL VPN Access
 R7-44: System Access - Secure Logoff Procedures
 R7-46: System Access, Unauthorized Use Message - Specifiable
 R7-47.1: System Access, Unauthorized Use Message - Specifiable (Warning)
 R7-47.2: Advisory Warning Message Default
 R7-48.1: System Access - User's Last Successful Access
 R7-48.2: System Access - User's Unsuccessful Access Attempts
 R7-49.1: System Access, Security Administration - Authorize Users
 R7-49.2: System Access, Security Administration - Revoke Users
 R7-50.1: System Access, Security Administration - Adding Users
 R7-50.2: System Access, Security Administration - Deleting Users

- ☒ (no answer)
☐ Yes
☐ No

7.4.2* QUESTION:

TRD FRS Section 7: Sub Section 7.4.2: Resource Access

Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?

R7-51: Data Access for Authorized Users
 R7-52: Service Provider Data Protected
 R7-53.1: Authorized User Access to Software
 R7-53.2: Authorized User Access to Transactions
 R7-53.3: Authorized User Access to Data
 R7-54.1: Access Control of Executable Software
 R7-55: Access Control of Resources
 R7-56: User ID and System ID
 R7-57: Resource Access to Users
 R7-58: Resource Access Denied to Users
 R7-60: Only NPAC Personnel Can Modify User Access
 R7-61: Removal of User Access Rights

- ☒ (no answer)
☐ Yes
☐ No

EXHIBIT A-3

7.5* QUESTION:

TRD FRS Section 7: Sub Section 7.5: Data and System Integrity

Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?

R7-63: Identify Originator of System Resources
R7-64: Identify Originator of Information Received Across Communication Channels
R7-65.1: Monitor System Resources
R7-65.2: Detect Error Conditions
R7-65.3: Detect Communication Errors
R7-65.4: Detect Link Outages
R7-66.1: Rule Checking on Update
R7-66.2: Handling of Duplicate Inputs
R7-66.3: Check Return Status
R7-66.4: Validate Inputs
R7-66.5: Transaction Serialization
R7-67: Database Integrity Checking

- ☒ (no answer)
☐ Yes
☐ No

7.6 STATEMENT:

TRD FRS Section 7: Sub Section 7.6: Audit

7.6.1* QUESTION:

TRD FRS Section 7: Sub Section 7.6.1: Audit Log Generation Requirements

Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?

R7-68.1: Security Audit Log for After the Fact Investigation
R7-68.2: Security Audit Data Availability
R7-68.3: Security Audit Data Archived
R7-69: User Identification Retained
R7-70: Protection of Security Audit Log Access
R7-71.2: NPAC Personnel Delete Security Audit Log
R7-72: Security Audit Control Protected
R7-73.1: Log Invalid User Authentication Attempts

EXHIBIT A-3

R7-73.2: Log NPAC/SMS End User Logins
R7-73.3: Log NPAC Personnel Activities
R7-73.4: Log Unauthorized Data Access
R7-73.5: Log Unauthorized Transaction Access
R7-74: No Disable of Security Auditing
R7-75: Security Audit Record Contents
R7-76.1: Recorded Login Attempts

☒ (no answer)

☐ Yes

☐ No

7.6.2* QUESTION:

TRD FRS Section 7: Sub Section 7.6.2: Reporting and Intrusion Detection Requirements

Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?

R7-77.1: Exception Reports on Data Items
R7-77.2: Exception Reports on Users
R7-77.3: Exception Reports on Communication Failures
R7-77.4: Summary Reports on Data Items
R7-77.5: Summary Reports on Users
R7-77.6: Summary Reports on Communication Failures
R7-77.7: Detailed Reports on Data Items
R7-77.8: Detailed Reports on Users
R7-77.9: Detailed Reports on Communication Failures
R7-78: Review User Actions
R7-79.1: Monitor Network Address
R7-80.1: Real-time Security Monitor
R7-80.2: Security Event Notification

☒ (no answer)

☐ Yes

☐ No

7.7* QUESTION:

TRD FRS Section 7: Sub Section 7.7: Continuity of Service

Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?

EXHIBIT A-3

R7-81: System Made Unavailable by Service Provider
R7-82: Detect Service Degrading Conditions
R7-83: System Recovery After Failure
R7-84.1: Software Backup Procedures
R7-84.2: Data Backup Procedures
R7-84.3: Software Restoration Procedures
R7-84.4: Data Restoration Procedures
R7-85.1: Software Version Number (Installed)
R7-85.2: Software Version Number

- ☒ (no answer)
☐ Yes
☐ No

7.8* QUESTION:

TRD FRS Section 7: Sub Section 7.8: Software Vendor

Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?

R7-86: Software Development Methodology
R7-87: Bypass of Security
R7-88: Documented Entry

- ☒ (no answer)
☐ Yes
☐ No

7.9 STATEMENT:

TRD FRS Section 7: Sub Section 7.9: OSI Security Environment

7.9.1 STATEMENT:

TRD FRS Section 7: Sub Section 7.9.1: Threats

Attacks against the NPAC/SMS may be perpetrated in order to achieve any of the following:

1. Denial of service to a customer by placing wrong translation information in the SMS
2. Denial of service to a customer by preventing a valid message from reaching the SMS
3. Disrupting a carrier's operations by having numerous spurious calls (to users who are not clients of that carrier)

EXHIBIT A-3

directed to that carrier

4. Switching customers to various carriers without their consent
5. Disrupting the functioning of the NPAC/SMS by swamping it with spurious messages

7.9.2* QUESTION:

TRD FRS Section 7: Sub Section 7.9.2: Security Services

Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?

- R7-89: Authentication
- R7-90: Data Origin Authentication
- R7-91.1: Detection of Message Replay
- R7-91.2: Deletion of a Message
- R7-91.3: Modification of a Message
- R7-91.4: Delay of a Message
- R7-92: Non-repudiation of Origin
- R7-93: Access Control

- ☒ (no answer)
- ☐ Yes
- ☐ No

7.9.3 STATEMENT:

TRD FRS Section 7: Sub Section 7.9.3: Security Mechanisms

7.9.3.1* QUESTION:

TRD FRS Section 7: Sub Section 7.9.3.1: Encryption

Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?

- R7-94.1: Public Key Crypto System (PKCS)
- R7-95: RSA Encryption Modulus Size

- ☒ (no answer)
- ☐ Yes
- ☐ No

EXHIBIT A-3

7.9.3.2* QUESTION:

TRD FRS Section 7: Sub Section 7.9.3.2: Authentication

Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?

R7-96: Digital Signature Algorithm
R7-97: Authenticator Contents
R7-98: Authenticator in Access Control Field
R7-99.1: Subsequent Messages Contain Access Control Field
R7-99.2: Separate Counter for Association Sequence Numbers
R7-99.3: Increment Sequence Numbers

- ☒ (no answer)
☐ Yes
☐ No

7.9.3.3* QUESTION:

TRD FRS Section 7: Sub Section 7.9.3.3: Integrity and Non-Repudiation

Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?

R7-100.1: Security Field
R7-100.2: Security Field Syntax
R7-102: Notifications in Confirmed Mode

- ☒ (no answer)
☐ Yes
☐ No

7.9.3.4* QUESTION:

TRD FRS Section 7: Sub Section 7.9.3.4: Access Control

Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?

EXHIBIT A-3

R7-104: Responsible for Access Control

R7-105.2: Generalized Time - Valid Message Timeframe

RR7-3: Generalized Time - Departure Time Threshold Tunable Parameter

RR7-4: Generalized Time - Departure Time Threshold Tunable Parameter Default

- ☒ (no answer)
- ☐ Yes
- ☐ No

7.9.3.5* QUESTION:

TRD FRS Section 7: Sub Section 7.9.3.5: Audit Trail

Does the Respondent's proposal fully comply with the requirement below in time to meet the published implementation date?

R7-106: Log Contents

- ☒ (no answer)
- ☐ Yes
- ☐ No

7.9.3.6* QUESTION:

TRD FRS Section 7: Sub Section 7.9.3.6: Key Exchange

Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?

R7-107.1: Lists of Keys

R7-107.2: Keys in Electronic Form

R7-107.4: Key List Exchange

R7-107.5: Remote Key List Exchange

R7-108.1: Remote Reception Acknowledgment

R7-108.2: Acknowledgment Contents

R7-108.3: Phone Confirmation

R7-110.1: List Encryption Keys

R7-110.3: List Encryption Keys (Unique Numbering of Keys)

R7-111.1: New Encryption Key Can Be Chosen

R7-111.2: Keys Not Reused

R7-111.3: Compromised Keys

R7-111.4: Key Change Once Per Year

R7-111.5: Key Size Increase Per Year

R7-111.6: Per Service Provider Application Basis

EXHIBIT A-3

R7-111.7: NPAC Key Change Algorithm
R7-111.8: Service Provider Key Marked Used/Invalid
RR7-1: Load Key List
RN7-1: Authenticator Contents - Individual System Clock Accuracy
RN7-2: Authenticator Contents - Zero Sequence Number

- ☒ (no answer)
☐ Yes
☐ No

8. TRD FRS Section 8: AUDIT ADMINISTRATION

8.1*

QUESTION:

TRD FRS Section 8: Sub Section 8.1: Overview

Does the Respondent's proposal fully comply with the requirement below in time to meet the published implementation date?

A8-1: Service Provider Audits Issued Immediately

- ☒ (no answer)
☐ Yes
☐ No

8.2* **QUESTION:**

TRD FRS Section 8: Sub Section 8.2: Service Provider User Functionality

Does the Respondent's proposal fully comply with these requirements below in time to meet the published implementation date?

RR8-19: Service Provider Audit Request – Required Information
R8-3: Service Providers Specify Audit Scope

EXHIBIT A-3

- ☒ (no answer)
- ☐ Yes
- ☐ No

8.3* QUESTION:

TRD FRS Section 8: Sub Section 8.3: NPAC User Functionality Requirements

Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?

RR8-20: NPAC Personnel Audit Request – Required Information
 R8-61: Specify an Immediate Audit Request
 R8-9: NPAC Personnel Specify Audit Scope
 R8-10: NPAC Personnel Status of Audit Request
 R8-11: Audit Progress Indicators
 R8-12: NPAC Personnel Cancel of an Audit

- ☒ (no answer)
- ☐ Yes
- ☐ No

8.4* QUESTION:

TRD FRS Section 8: Sub Section 8.4: System Functionality Requirements

Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?

R8-15.1: NPAC Personnel View of ALL Audit Requests
 R8-15.2: Mechanized SOA Interface Obtain Audit Requests
 R8-15.3: Send Audit Results to Originating SOA
 R8-16.1: Flow of Audit Execution
 R8-17.1: Compare NPAC/SMS Subscription Versions to Service Provider Subscription Versions
 R8-17.2: Add TNs to Service Provider Subscription Versions
 R8-17.3: Modify Erroneous TNs
 R8-17.4: Delete Discrepant TNs from Service Provider Subscription Versions
 R8-19: Record Audit Results in an Audit Log
 RR8-4: Skip Subscription Versions with a Status of Sending
 RR8-5: Report No Discrepancies Found in Audit Results for Skipped Subscription Versions
 RR8-21: Audit for Support of SV Type
 RR8-22: Audit for Support of Alternative SPID
 RR8-26: Audit for Support of Last Alternative SPID
 RR8-27: Audit for Support of Voice URI
 RR8-28: Audit for Support of MMS URI
 RR8-29: Audit for Support of SMS URI

EXHIBIT A-3

- ☒ (no answer)
- ☐ Yes
- ☐ No

8.5* QUESTION:

TRD FRS Section 8: Sub Section 8.5: Audit Report Management Requirements

Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?

R8-20: Service provider Audit Retrieval
R8-21.1: Generate an Audit Report
R8-21.2: Audit Report Contents
R8-23.1: NPAC Personnel View an In-progress Audit Report
R8-22: NPAC Personnel Generate and View an Audit Report
R8-23.2: Service Providers View Results of Audits They Have Requested
R8-25: NPAC Personnel Specify Time Audit Results Retained

- ☒ (no answer)
- ☐ Yes
- ☐ No

8.6* QUESTION:

TRD FRS Section 8: Sub Section 8.6: Additional Requirements

Does the Respondent's proposal fully comply with the requirement below in time to meet the published implementation date?

RX8-1: Valid Audit Statuses

- ☒ (no answer)
- ☐ Yes
- ☐ No

8.7* QUESTION:

EXHIBIT A-3

TRD FRS Section 8: Sub Section 8.7: Database Integrity Sampling

Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?

RR8-1: Random Sampling of Active Subscription Versions
 RR8-2.1: Data Integrity Sample Size - Tunable Parameter
 RR8-2.2: Data Integrity Sample Size - Tunable Parameter Modification
 RR8-2.3: Data Integrity Sample Size - Tunable Parameter Default
 RR8-3.1: Data Integrity Frequency - Tunable Parameter
 RR8-3.2: Data Integrity Frequency - Tunable Parameter Modification
 RR8-3.3: Data Integrity Frequency - Tunable Parameter Default

- ☒ (no answer)
☐ Yes
☐ No

8.8* QUESTION:

TRD FRS Section 8: Sub Section 8.8: Audit Processing in a Number Pool Environment Requirements

Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?

RR8-6: Audit Processing for All Subscription Versions in a Number Pooling Environment
 RR8-7: Audit Discrepancy and Results Notifications for Pooled Number Subscription Versions to Requesting SOA
 RR8-8: Audit Discrepancy and Results Notifications for Pooled Number Subscription Versions for Audited TNs
 RR8-9: Audit Status Attribute Value Change Notification Send for Pooled Number Blocks
 RR8-10: Audit Attribute Value Change Notification Send for Pooled Number Blocks
 RR8-11: Audit for Pooled Numbers and Block to EDR Local SMS
 RR8-12: Audit Response – Ignore missing SVs for Pooled Ports at EDR Local SMS
 RR8-13: Audit Response – Delete erroneous SVs for Pooled Ports at EDR Local SMS
 RR8-14: Audit Response – Compare NPAC/SMS Block to Service Provider Block at EDR Local SMS
 RR8-15: Audit Response – Block Missing from EDR Local SMS
 RR8-16: Audit Response – Block Discrepant at EDR Local SMS
 RR8-17: Audit Response – Extra Block at EDR Local SMS
 RR8-18: Audit Processing – Skipping In-Progress Blocks

- ☒ (no answer)
☐ Yes
☐ No

8.9* QUESTION:

EXHIBIT A-3

TRD FRS Section 8: Sub Section 8.9: Audit Processing in a Pseudo-LRN Environment Requirements

The Audit processing that is described in this section deals with all Subscription Versions and Number Pool Blocks in a pseudo-LRN environment. Audit processing in a pseudo-LRN environment will use the information in the Service Provider's profile (NPAC Customer LSMS Pseudo-LRN Indicator) to determine whether to send a query for a TN/TN Range and/or Number Pool Block.

Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?

- RR8-30: Audit of Pseudo LRN Subscription Versions-Query all LSMSs.
- RR8-31: Audit of Pseudo LRN Subscription Version-Roll up Query results only for supporting LSMS.
- RR8-32: Audit of Pseudo LRN Number Pool Block query all LSMSs.
- RR8-33: A1Audit of Pseudo LRN Number Pool Block- Roll up query results only for supporting LSMS.
- RR8-34: Audit of Pseudo LRN Subscription Version Send Audit results to Originating SOA.
- RR8-35: Audit of Pseudo LRN Number Pool Block- Send Audit results to Originating SOA.
- RR8-36: Add/Modify /Delete TNs to Service Provider Pseudo LRN Subscription Versions.

- ☒ (no answer)
- ☐ Yes
- ☐ No

9. TRD FRS Section 9: REPORTS

9.1 STATEMENT:

TRD FRS Section 9: Sub Section 9.1: Overview

The NPAC/SMS must support scheduled and ad hoc report generation for selectable reports. The report generation service shall create output report files according to specified format definitions, and distribute reports to output devices as requested. A report distribution service shall be used to distribute report files to selected output devices. Authorized NPAC personnel can request reports from active database, history logs, error logs, traffic measurements, usage measurements, and performance reports.

9.2* QUESTION:

TRD FRS Section 9: Sub Section 9.2: National Number Pooling Reports Requirements

Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?

EXHIBIT A-3

R9-1: NPAC Personnel Report Selection
R9-2: NPAC Personnel Selection of Output Destination
R9-3: NPAC Personnel Re-print of Reports
R9-4: NPAC Personnel Create Customized Reports
R9-5: NPAC Personnel Define Scope and Filtering
R9-6: Service Providers Receive Reports on Their Activities
RX9-1: Service and Network Data Reports
RX9-2: Service Provider Reports
RX9-3: Subscription Data Reports
RX9-4: System Reports
RX9-5: Security Reports
RX9-6: Log File Reports
RX9-7: Audit Reports
RX9-8: Regularly Scheduled Reports
RR9-1: Data Integrity Report - Database Sample Report
RR9-39: Pseudo-LRN Data in Reports - Service Provider Personnel
RR9-40: Pseudo-LRN Data in Reports - NPAC Personnel

- ☒ (no answer)
☐ Yes
☐ No

9.3* QUESTION:

TRD FRS Section 9: Sub Section 9.3: System Functionality Requirements

Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?

R9-9: Verification of User Privileges
R9-10: Support of On-Line Fire Transfer
R9-11: Transaction History Log
R9-12.1: Error Log - Transaction Errors
R9-12.2: Error Log - Transmission Errors

- ☒ (no answer)
☐ Yes
☐ No

9.3.1* QUESTION:

TRD FRS Section 9: Sub Section 9.3.1: National Number Pooling Reports Requirements

EXHIBIT A-3

Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?

- RR9-2: Pooled Number Reports - Query functions
- RR9-3: Pooled Number Reports - Block Holder Default Routing Report Data Elements
- RR9-4: Pooled Number Reports - Block Holder Default Routing Report Page Break
- RR9-7: Pooled Number Reports - OpGUI Report Generation
- RR9-8: Pooled Number Reports - Block Holder Default Routing Report
- RR9-9: Pooled Number Reports - Active-Like TNs in a NPA-NXX-X Report
- RR9-10: Pooled Number Reports - Active-Like TNs in a NPA-NXX-X Report Data Elements
- RR9-11: Pooled Number Reports - Pending-Like No-Active and Pending-Like Port-to-Original Subscription Versions Report
- RR9-12: Pooled Number Reports - Pending-Like No-Active and Pending-Like Port-to-Original Subscription Versions Report Data Elements
- RR9-13: Pooled Number Reports - Pending-Like No-Active and Pending-Like Port-to-Original Subscription Versions Report Sort Priority
- RR9-14: Pooled Number Reports - Pending-Like No-Active and Pending-Like Port-to-Original Subscription Versions Report Page Break
- RR9-15: Pooled Number Reports - Pending-Like With Active POOL Subscription Versions Report
- RR9-16: Pooled Number Reports - Pending-Like With Active POOL Subscription Versions Report Data Elements
- RR9-17: Pooled Number Reports - Pending-Like With Active POOL Subscription Versions Report Sort Priority
- RR9-18: Pooled Number Reports - Pending-Like With Active POOL Subscription Versions Report Page Break

- ☒ (no answer)
- ☐ Yes
- ☐ No

9.3.2* QUESTION:

TRD FRS Section 9.3: Sub Section 9.3.2: Cause Code Reports Requirements

Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?

- RR9-19: Logging Cause code usage by SPID Reporting
- RR9-20: Cause Code Usage Log Report via OpGUI
- RR9-21: Cause Code Usage Log Report Monthly Generation
- RR9-22: Cause Code Usage Log Report Sort Criteria
- RR9-23: Cause Code Usage Log Report Selection Criteria
- RR9-24: Cause Code Usage Log Report Display

- ☒ (no answer)
- ☐ Yes
- ☐ No

EXHIBIT A-3

9.3.3* QUESTION:

TRD FRS Section 9: Sub Section 9.3.3: Resend Excluded Service Provider Report Requirements

Does the Respondent's proposal fully comply with the requirements below in time to meet the published implementation date?

- RR9-25: Subscription Version Failed SP List - Excluded Service Provider Log Data Availability for the Excluded Service Provider Report
- RR9-26: Subscription Version Failed SP List - Resend Excluded Service Provider Report by Current SPID via OpGUI
- RR9-27: Subscription Version Failed SP List - Resend Excluded Service Provider Report by Current SPID Request
- RR9-28: Subscription Version Failed SP List - Resend Excluded Service Provider Report by Current SPID Request Sort Criteria
- RR9-29: Subscription Version Failed SP List -Resend Excluded Service Provider Report by Excluded SPID via OpGUI
- RR9-30: Subscription Version Failed SP List - Resend Excluded Service Provider Report by Excluded SPID Request
- RR9-31: Subscription Version Failed SP List -Resend Excluded Service Provider Report by Excluded SPID Request Sort Criteria
- RR9-32: Number Pool Block Failed SP List - Excluded Service Provider Log Data Availability for the Excluded Service Provider Report
- RR9-33: Number Pool Block Failed SP List -Resend Excluded Service Provider Report by Current SPID/Blockholder SPID via OpGUI
- RR9-34: Number Pool Block Failed SP List - Resend Excluded Service Provider Report Request by Current SPID/Blockholder SPID
- RR9-35: Number Pool Block Failed SP List - Resend Excluded Service Provider Report by Current SPID/Blockholder SPID Request Sort Criteria
- RR9-36: Number Pool Block Failed SP List -Resend Excluded Service Provider Report by Excluded SPID via OpGUI
- RR9-37: Number Pool Block Failed SP List - Resend Excluded Service Provider Report by Excluded SPID Request
- RR9-38: Number Pool Block Failed SP List -Resend Excluded Service Provider Report by Excluded SPID Request Sort Criteria

- ☒ (no answer)
- ☐ Yes
- ☐ No

10. TRD FRS Section 10: PERFORMANCE AND RELIABILITY

10.1* QUESTION:

TRD FRS Section 10: Sub Section 10.1: Availability and Reliability

This section defines the reliability, availability, performance and capacity requirements for the NPAC/SMS. The NPAC/SMS will be designed for high reliability, including fault tolerance and data integrity features, symmetrical multi-processing capability, and allow for economical and efficient system expansion.

EXHIBIT A-3

Does the Respondent's proposal fully comply with these requirements in time to meet the published implementation date?

R10-1: System Availability
 R10-2: System Reliability
 R10-3: Unscheduled Downtime
 R10-4: Mean Time to Repair for Unscheduled Downtime
 R10-5: Scheduled Downtime
 AR10-1: Scheduled Downtime
 R10-6.1: Communication Link Monitoring
 R10-6.2: Detecting Communication Link Failures
 R10-7: Detecting Single Bit Data Transmission Errors
 R10-8: Continue Transaction Processing After Downtime
 R10-9.1: Self Checking Logic
 R10-9.2: Continuous Hardware Checking
 R10-9.3: Duplexing of Hardware
 R10-9.4: Transparent Hardware Fault Tolerance
 R10-10.1: Service Provider Notification of System Unavailability
 R10-10.2: System Availability Notification Method
 R10-10.3: System Availability Notification Contents
 R10-11: Updates Highest Priority
 R10-12.1: Tolerance to Communication Link Outages
 R10-12.2: Alternate routing
 R10-13.1: Switch to Backup or Disaster Recovery Machine
 R10-13.2: Time to Switch Machines
 R10-13.3: Total Disaster Recovery
 R10-13.4: Full Functionality Restored
 R10-14: Reports on Reliability

- ☒ (no answer)
☐ Yes
☐ No

10.2* QUESTION:

TRD FRS Section 10: Sub Section 10.2: Capacity and Performance

Does the Respondent's proposal fully comply with these requirements in time to meet the published implementation date?

R10-16: Capacity
 R10-18: History File Data Storage
 R10-19: Broadcast Update Response Time
 R10-20: Request/Transaction Response Time
 R10-21: Future System Growth

EXHIBIT A-3

- ☒ (no answer)
- ☐ Yes
- ☐ No

10.3* QUESTION:

TRD FRS Section 10: Sub Section 10.3: Requirements Not Given a Unique ID

Does the Respondent's proposal fully comply with these requirements in time to meet the published implementation date?

RN10-2: Return to the Primary Machine SOA Notification
RN10-3: Return to the Primary Machine Local SMS Notification
RN10-4: Database Sync after Return to the Primary Machine

- ☒ (no answer)
- ☐ Yes
- ☐ No

11. TRD FRS Section 11: BILLING

11.1* QUESTION:

TRD FRS Section 11: Sub Section 11.1: User Functionality

Does the Respondent's proposal fully comply with the requirements below, in time to meet the published implementation date?

R11-1: Toggling the Generation of Usage Measurements
A11-2: Accounting Measurements Will Not Degrade the Basic System Performance

EXHIBIT A-3

- ☒ (no answer)
- ☐ Yes
- ☐ No

11.2* QUESTION:

TRD FRS Section 11: Sub Section 11.2: System Functionality

Does the Respondent's proposal fully comply with the requirements below, in time to meet the published implementation date?

- R11-2: Generating Usage Measurements for NPAC Resources
- R11-3: Generating Usage Measurements for Allocated Connections
- R11-4: Generating Usage Measurements for Allocated Mass Storage
- R11-5: Generating Usage Measurements for the Number of Messages Processed by type
- R11-6: Generating Usage Measurements for the Number of Messages Downloaded
- R11-8: Generating Detailed Usage Measurement Reports
- R11-9: Billing Report Types
- R11-10: Full Billing Report
- R11-11: Billing Report Creation by NPAC Personnel
- R11-12: Billing Report Creation by Service Provider
- R11-13: NPAC Personnel Billing Report Destination
- R11-14: Service provider Billing Report Destination
- R11-15: NPAC Personnel Only can Access Billing System

- ☒ (no answer)
- ☐ Yes
- ☐ No

12. TRD Detailed Response

12.1* QUESTION:

Please attach a **SUMMARY** document explaining how the Respondent's proposal addresses the requirements defined in this TRD survey, and explain in detail any differences and suggested areas of improvement (as an example, reduction of BDD processing time), or enhancements which may affect the NPAC/SMS implementation, ensuring the Respondent's proposal will not interfere with or degrade any porting/pooling activities.

EXHIBIT A-3

This summary document should also be used to include an explanation of any "No" responses.

Attachments:

[Attach a file to this answer](#)